

Work Area: STW Work Type: QTY

Originator Company: BFK



C	435	
Farringdon	Main	Station

CRLL	ead	reviewer:	SS
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**CRL Reviewer: FEs** 

# **Readiness Review and Certification Packages Procedure**

# CRL Document Number: C435-BFK-O4-GPS-M123-50001

Contract MDL reference: C06.003

### 1. Contractor Document Submittal History:

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# 3. Acceptance by Crossrail.

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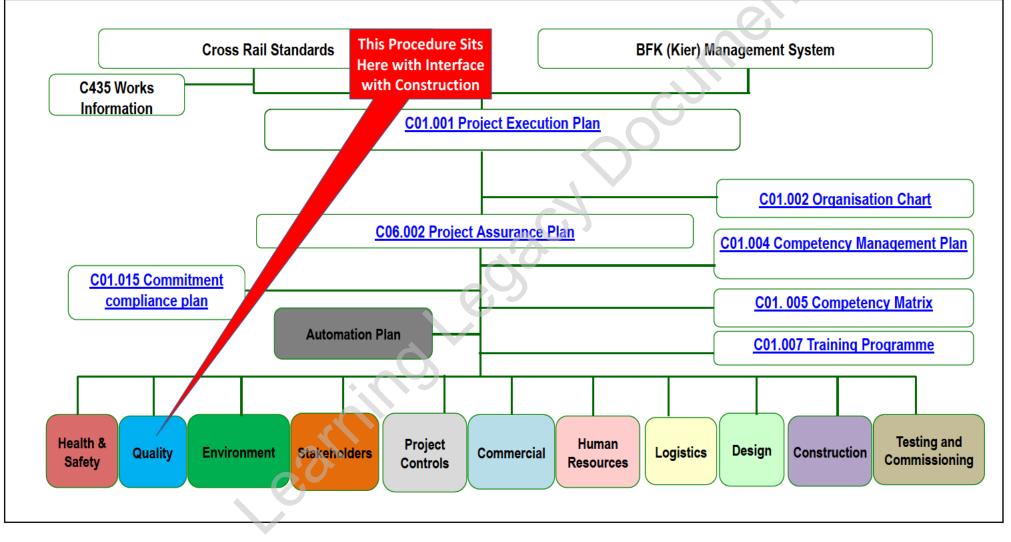
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Rev 10.0 updates Rev 11.0 updates





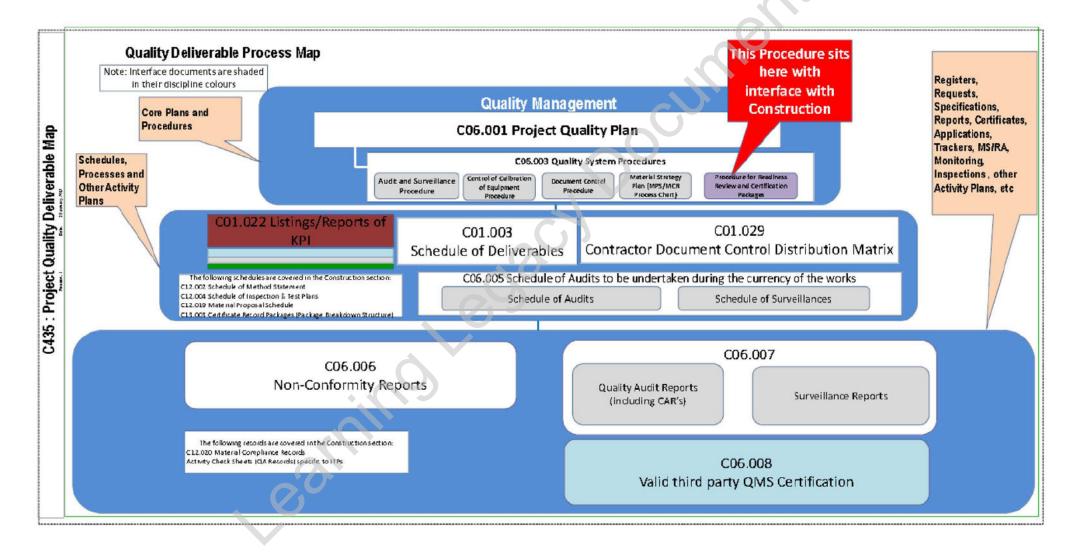
# 1 Location of this Procedure on C435 Document Map







### Location of Procedure in Quality Document Map







# 2 Purpose

The purpose of this quality system procedure is to outline how BFK C435 team will manage Readiness Reviews through to the Certification of Record Packages in line with the Works Information C435-XRL-V3-XWI-M123-50001 Part 13.6 and 20.4. This document provides detailed process and guidance on how BFK will plan deliverables, and their progressive update prior & during construction, and certification stages.

# 3 Scope

This procedure covers C435 Construction including subcontractor activities

# 4 Definitions

The following definitions are used in this procedure:

# 4.1 Readiness Review Deliverables Tracker

A schedule used to monitor a sub-construction package or a number of sub-construction packages.

# 4.2 Checklist - Pre start work documentation

A checksheet used to confirm the approval of relevant deliverables required to start an Activity or a number of Activities

# 4.3 Core Deliverables Tracker (CMDL)

A schedule used to monitor the Key Plans and Procedures on the C435 Project. The CMDL requirement is met with the combination of the Readiness review deliverables tracker (as in item 4.1 above) and the Core deliverables tracker

# 4.4 Construction/sub-Construction Certificate Listing

Construction/sub-construction certificate with a list of records associated for the works covered the certificate.





# 5 Responsibilities

### 5.1 Construction Manager

The Project Director and Section Manager's duties under this Procedure are delegated to the Construction Manager and includes following;

- He or She ensures Agents carry out Readiness Review and compilation of Certification Records in line with this C435 quality system procedure.
- Ensures there is adequate resource to manage this process
- Verifies that Agents are managing this process effectively
- Review and Approve Readiness Review Deliverables Trackers prior to submission to the CRL Project Manager.
- Review and Approves monthly certification document and tracker.
- Authorise Construction/sub-construction Certificates for completed packages
- Attends readiness review meetings where required
- Review and ensure the Whole Construction Certificate is either signed by Construction Manager or Project Director.
- Ensure that Project Health & Safety file is prepared and included in the Construction/Whole Construction Certificate.
- Ensure that Operational & Maintenance Manual for relevant works as required by works information is produced and approved by the Client.

# 5.2 Quality Manager

The Quality Manager's duties under this Procedure are as follows:

- Ensures the effectiveness of this Procedure as part of the Quality System Procedures
- Report summaries and progress in the Periodic Report.
- Review and sign sub-construction/construction certificate as reviewer
- Review and approve ITP Record compliance statement.
- Arrange Quality Surveillance to ensure that sub-contractor records are accurate, complete and progressive throughout the works.
- Attend Readiness Review presentations/meetings as necessary

# 5.3 Package Deliverable Manager

The Package Deliverable Manager's duties under this procedure shall include the following:

- Carry out compliance check under this procedure through review and submissions except those stated in this procedure.
- Ensure that Readiness Review Deliverable Trackers are issued to CRL Project Manager/PFE/Field Engineer quarterly.
- Verify that Readiness Review meetings are carried out prior to the start of each or a number of packages and status updated on the certification tracker.
- Review whole/sub/construction certificates and ensure timely submission on eB.
- Be the point of contact for CRL's Certification Engineer
- Arrange regular meetings between CRL Certification Engineer and BFK on Certifications OR discuss in weekly construction/Quality Meeting.
- Attend Readiness Review presentations/meetings as necessary
- Attend Internal weekly Readiness Review/ Certification Meetings as necessary
- Report Certification Progress to BFK Teams, Crossrail PFE and Certification Engineer formally every month and informally weekly via email.
- In the absence of the Quality Manager review and approve the sub-construction/construction certificate listing and ITP Records compliance statement.





- Raise any ineffectiveness of the readiness review and certification processes with the **Construction Manager** and **Quality Manager**
- Verify that the operational duties delegated to nominated staff to control this process are carried out effectively in achieving requirements stated in this procedure.
- Discuss any improvements and non-compliances formally with the **Construction Manager** and the **Quality Manager**.
- Provide guidance to the Construction Team and sub-contractor as necessary for Certification and readiness to review requirement.
- Attend Crossrail Certification Working Group Meeting/workshop.

# 5.4 Agent

The Agent's duties under this procedure shall include the following:

- Submit Readiness to review tracker for each sub-construction certificate package formally to CRL before the start of the works and every three months thereafter. For works taking less than 3 months tracker to be submitted before work starts/when the work is finished.
- Review weekly the Readiness Review Deliverables Tracker and discuss relevant activities under them with CRL **Construction Manager** at the Weekly Construction Meetings
- Appoint a competent person (a section deliverable engineer) to maintain the trackers
- Review and Approve Readiness Review Deliverables Trackers prior to submission to the CRL Project Manager/PFE/Field Engineer.
- Review the Readiness Review Deliverables Tracker quarterly for the Construction Manager's approval prior to submission to CRL Project Manager.
- Chairs Readiness Review meetings
- Prepares presentations for Readiness Review meetings
- Attend or delegate a team member who understands the discipline's activities to a readiness review and deliverables meeting. (This meeting may be part of the weekly Section Construction/Quality meeting)
- Appoint a competent person to ensure that sub-construction/construction certificate list is upto date with latest start/end program ID and dates and Certification Manager is informed of any update or changes.
- Appoint a competent person to ensure that sub-construction/construction certificates and associated records are reviewed internally within BFK, by CRL Field Engineer informally and issued to Crossrail PFE formally via eB prior to the planned issue date as per the latest Certification tracker C435-BFK-C-TSC-M123-50011.
- Liaise with the Package Deliverable Manager in the effectiveness of the Process.
- Put measures in place to improve any unsatisfactory occurrences
- Ensures that the operational duties delegated to nominated staff to control this process are carried out effectively in achieving requirements stated in this procedure.
- Discuss any improvements and non-compliances formally with the **Package Deliverable Manager** and the **Construction Manager**.
- Break discipline packages into sub-construction packages and issue breakdown for the Construction Manager's review and the Package Deliverable Manager's certification monitoring
- Update quarterly all construction trackers for submission to the CRL Project Manager
- Issue a statement to the **Construction Manager** and **Package Deliverables Manager** why a document or a number of planned documents could not be submitted over a Period
- Attend Third Party (ie. LU, NR, Thames Water etc) Interface meetings to align third party trackers with the readiness review deliverables tracker
- Where sub-contractor is responsible for a part or all of the works for a sub-construction/ Construction certification package, <u>ensure</u> that certification documentation process, Works Information requirement and responsibilities are <u>briefed</u> to the sub-contractor and progress is monitored throughout by Agent or sub-Agent. Sub-Agent shall arrange necessary briefings as and when required in consultation with Package Deliverable Manager to include Certification requirement, production of ITP records, redline/as-built drawings, sub-construction certificate





listing, Health & Safety File, Operation & Maintenance Manual etc. as required by the Works Information.

- Ensure that sub-contractor records are accurate, complete and progressive throughout the works and are submitted to BFK one week prior to the planned Crossrail submission date.
- Ensure that Section specific Health and Safety File is prepared and issued to Crossrail Project Manager for Acceptance and included in the relevant Sub/Construction Certificate.
- Ensure that Operational & Maintenance Manual for relevant works as required by works information is produced and approved by the Client.

# 5.5 Sub Agents

Sub Agents duties under this procedure include the following:

- Responsible to the Agent for his or her section readiness review deliverables trackers
- Carry out the responsibilities of the Agent in the absence of the Agent
- Ensure that sub-construction/construction certificate list is up to date with latest start/end program ID and dates and Certification Manager is informed of the changes at every period.
- Ensure that sub-construction/construction certificates and associated records/drawings are compiled, reviewed internally, by CRL Field Engineer informally and issued to Crossrail PFE formally via eB prior to the planned issue date as per the latest Certification tracker C435-BFK-C-TSC-M123-50011.
- Where sub-contractor is responsible for part or all of the works for a sub-construction/ Construction certification package, Sub-Agent shall <u>arrange</u> necessary sub-contractor certification <u>briefing in consultation</u> with Package Deliverable Manager highlighting Works Information requirement, procedures and responsibilities including Certification requirement, production of ITP records, redline/as-built drawings, sub-construction certificate listing, Health & Safety File, Operation & Maintenance Manual etc. as required by the Works Information.

# 5.6 Section Deliverable Engineer

Section Deliverable Engineer's duties under this procedure shall be as follows:

- Update the Readiness Review Deliverables tracker, and the Certification Record Packages-Sub construction Certification Structure.
- Issue updated tracker to the Agent for his/her review and where instructed forward weekly to the CRL Field Engineer.
- Attend Third Party (ie. LU, NR, Thames Water etc) Interface meetings to align third party trackers with the readiness review and deliverables tracker by liaising with the Agent
- Liaise with CRL Field Engineer to ensure alignment and notifying the Agent of any changes
- Attend weekly Readiness Review meetings (These meetings could be part of the weekly Section Construction meeting)
- Attend Readiness Review meetings prior to the start of any package to identify CRL approved documents
- Make regular site visits to ensure construction records are covered in respective packages as
   identified on trackers
- Attend Section Construction meetings (including subcontractor's)
- Issue an updated and Construction Manager's approved trackers to the Package Deliverable Manager each Period (on the Friday of the BFK data end date See CRL calendar)
- Carry out regular Records QA checks and advises the Agent
- Present a weekly KPI to the Agent on the progress of the sections documentation
- Prepare a Pre-Start Work Documentation checklist to ensure all deliverables are accepted in code 1, 2, 4, or where not requiring CRL response (ie. acceptance or Information coding) signed by required BFK reviewers and approvers before commencing works. Activities requiring a pre-start work documentation checklist shall be decided by the **Agent**.
- Review and respond to all CRL comments regarding the section's trackers





- Liaise with the Agent to re-plan late deliverables to ensure no delays to the works
- Follow-up with authors of due documents for submission
- Follow-up CRL late responses and prompt the CRL Field Engineer or Lead Reviewer

# 5.7 Sub-Contractor

Sub-Contractor's duties under this procedure shall be as follows:

- Ensure that readiness to review presentation is arranged for each element of works in accordance with this document and appendix-1. Ensure that readiness to review trackers are issued periodically (quarterly) to BFK and Crossrail for acceptance.
- Ensure that certification records, drawings as identified in the ITPs and Works Information including O&M manual and Health & Safety file are reviewed, completed on-time and available to the Agent/sub-Agent one week prior to the sub/construction certificate submission date as identified on the latest Project Certification Tracker C435-BFK-C-TSC-M123-50011.
- Ensure that sub-contractor key individual has received certification briefing and liaise with the Agent/sub-agent as necessary for the briefing.
- Ensure that all the deliverable and non-deliverable records are accurate, complete and progressive throughout the works and are available for inspection during Quality Surveillances.
- Assist BFK Agent/sub-agent in production of deliverable records and sub-construction certification, Health & Safety File and Operational & Maintenance Manual.

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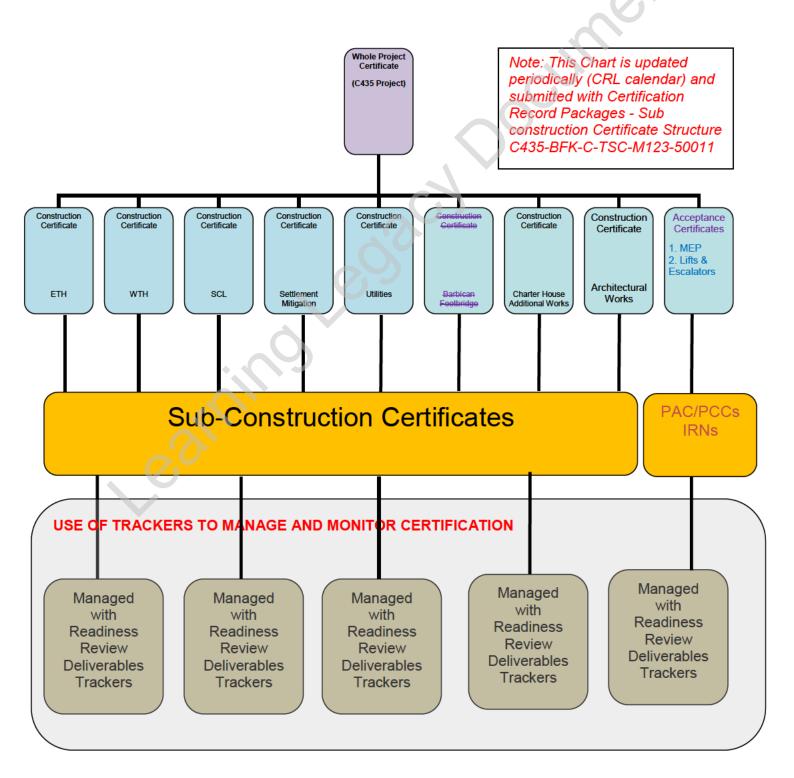


# 6 **Project Certification Structure**

The following Certification Strategy chart shall be adopted by C435 Farringdon station. Details of the breakdown of the Certification structure is in document reference C435-BFK-C-TSC-M123-50011

The certification of all sub-construction Packages under a Construction Package will lead to a Construction Certificate. Likewise the certification of all Construction Certificates will lead to the award of a Whole Contract Completion Certificate.

As the Completion Certification of the Project is heavily dependent on the progressive award of Subconstruction certificates, the following sections in this procedure will outline C435 strategy of planning, and compilation of evidence towards the award of these certificates in line with the Works Information C435-XRL-V3-XWI-M123-50001 Part 13 and 20.





# 7 Planning Phase

The **Agent** is responsible for ensuring an effective planning towards a sub-construction certification is in place. Prior to undertaking the following steps towards this activity he/she shall ensure the sub-package is already identified in the Project 'Certification Record Packages – Sub Construction Certificate Structure' document with reference C435-BFK-C-TSC-M123-50011.

Prior to commencing works, a fully populated Readiness Review Tracker (RRT) is required, detailing foreseeable required documentation **including Construction deliverable packages** and shall also include the IFC Drawings, As-Built and Redline Drawings. The RRT is a live document and as such, where any changes occur the document is to be updated accordingly and discussed with the **CRL Field Engineer** and reported to the **Package Deliverables Manager** to ensure consistency of reporting to Crossrail.

# 7.1 Planning a New Sub-Construction Package/IRN Package (MEP)

The following planning and documentation process shall be implemented to ensure an effective managing and monitoring process. In addition, the **Agent** shall ensure that 18weeks prior to starting a Sub-Package he/she shall take steps to implement the following process prior to the start of the Activity (Please refer Appendix 1). Where programme delays do not allow early planning as identified above, the **Agent** shall consult the **Construction Manager**, the **Package Deliverable Manager**, the **CRL Construction Manager** and the **Project Field Engineer** and notify them of the process delay.

# 7.1.1 Preparation prior to a Readiness Review Meeting

Four weeks prior to a Readiness Review meeting with CRL (unless constraints identified above), the **Agent** shall refer to the BFK readiness review checklist (See appendix 2) and extract any activity, processes, third party interfaces, risks, and other construction constraints in line with the Works Information, Materials & Workmanship Specification, and any contract drawings that he/she deem safety critical and their respective deliverables as required in specifications above for his/her production of a Readiness Review Presentation and the Readiness Review Deliverables tracker (see appendix 3 and 4).

The **Agent** shall involve the **Section Deliverable Engineer** in all processes leading to the Readiness review.

Please refer Appendix 2 for BFK Readiness Review checklist for the Agent's reference whilst preparing the Presentation and the Readiness Review Deliverables tracker for the Readiness Review meeting.

# 7.1.2 Populating a Readiness Review and Deliverables tracker for a Readiness Review meeting and its weekly update

The template in Appendix 3 shall be used by all construction disciplines for the maintenance of a Readiness Review Deliverables tracker except SCL that shall use the template in Appendix 4. The templates shall be modified from time to time to include any agreed improvement.

This Procedure will not be updated when any template identified in this procedure is modified. Modifications shall be notified to Agents and logged on the C435 EDMS BC for use, and submitted through eB as part of the 4weekly submission.

The Agent shall ensure the following:

- All sections of the templates are populated
- Prior to the Readiness review meeting all key documents required to start the package are identified and planned on the Readiness Review Deliverables tracker.





- The **Agent** and the **Section Deliverable Engineer** shall update the tracker weekly to include all deliverables that are not on the tracker at the time of the update prior to start of an activity with the required planned date and eB number.
- Submission of all CRL acceptance document shall be identified and planned for first submission 45days prior to start of the activity requiring this document.
- Unless stated in the Contract specification, all Third Party document shall be identified and planned for first submission 60days prior to start of the activity requiring this document.
- All documents identified on the Readiness Review and Deliverables tracker for LU acceptance or information shall also be identified on the LU tracker through the raising of a Change Request Form by the **Agent** and reviewed by the **C435 Interface Manager**
- The **Agent** and the **Section Deliverable Engineer** shall ensure all Activities requiring the issue of a Letter of No Objection (LONO) are identified on both the LU and BFK trackers. A list of Letter of No Objections shall be identified on the readiness review deliverables tracker and monitored.

### 7.1.3 Arranging a Readiness Review Meeting

- The **Package Deliverable Manager** shall use the Certification Record Packages Sub Construction Certification Structure tracker and identify all Readiness Review meetings for each Package.
- The **Agent** shall be responsible for arranging Readiness Review meetings as specified in Appendix 1 and below paragraph.

Readiness to review meetings shall be arranged at least **6 weeks** prior to works commencement and 12 weeks if work involves London Underground and/or Network Rail interface. There may be more than one Readiness to Review meetings required for Architectural sub-construction packages to include prototype and fabrication.

- Invites for Readiness Review meetings shall be sent to attendees a minimum of 2weeks prior to the meeting by the **Agent** (see Appendix 1)
- The **Agent** shall invite the following individuals as a minimum to the Readiness Review meeting

BFK Construction Manager

BFK Quality Manager

BFK Package Deliverable Manager

BFK Health and Safety Representative

BFK Environmental Representative

**BFK Logistics Manager** 

BFK Engineering Manager

BFK Interface Manager

BFK Section Deliverable Engineer

CRL Project Field Engineer

CRL Field Engineer

- CRL Construction Manager
- CRL Site Manager
- CRL Engineering Manager





• The **Agent** shall ensure an Agenda is sent as part of the invite. A Readiness Review meeting standard agenda shall include the following:

The Activity Location in the Package or Discipline Scope of the works Programme of the works Outline Methodology of the works Interfaces and Third party engagement Risks identified and Persons assigned to follow up to meet programme Opportunities identified Deliverables - How they are managed and followed up Any other business

• The **Agent** shall chair the Readiness Review meeting and ensure there is arrangement for minutes preparation

### 7.1.4 Using Readiness Review Process to check deliverables acceptances prior to commencement of an activity

As part of using the Readiness Review Deliverables tracker in managing and planning the works to ensure deliverables of an activity under a sub-construction package are all in code 1, 2, or 4 prior to starting an activity, the template in Appendix 5 'Pre-Start Work Documentation' checklist is used to prevent the occurrence of working without an approved document.

- The Pre-Start Work Documentation checklist shall not be recorded as a deliverable, and may only be included on the Readiness Review Deliverables tracker by the **Agent** for his/her own monitoring process.
- The document shall be maintained on site file for auditing purposes and where required loaded on the BFK EDMS (BC).

### 7.1.5 Agreeing Readiness Review and Deliverables Tracker with CRL

**Two** weeks after the readiness review meeting, the Agent or his/her delegate shall formally issue the Readiness Review and Deliverables Tracker to the relevant CRL Field Engineer for his/her agreement of the content of the tracker. Comments from this initial review shall be addressed and presented at the weekly BFK/CRL reviews.

Upon agreement of the RRT by the CRL Field Engineer, the RRT will be formally issued (within two weeks of the Readiness Review Meeting).

The list of Redline/As-Built drawings are to be agreed between the relevant BFK Agent and CRL Field Engineer prior to commencing works, ensuring that suitable drawings showing the final arrangement of permanent works will be provided to follow-on contractors and/or the end user. Identification of these drawings at an early stage will prove advantageous with regard to the review and subsequent acceptance of the drawings by CRL.





# 8 Construction Phase

The **Agent** is responsible for his/her sections effective compilation of deliverables towards a subconstruction certification. At this stage, it is expected that the **Agent** had identified all deliverables on the Readiness Review Deliverables tracker except records to be generated from Inspection and Test Plans. However, any deliverable that is not identified at this stage should be incorporated as necessary (See requirements in section 7.1.2 of this document and Appendix 1).

# 8.1 Inspection & Test Plan Records Compilation Process

BFK shall collate records, packaged, indexed and submitted in phased manner for each element, structure, activity, or section, in accordance with the Works Information and the Certification Records Packages – Sub Construction Certification Structure.

BFK strategy for ITP records submission shall be as follows:

- The **Agent** and his/her team shall identify individual construction records under the subconstruction package for progressive phase submission. Example under a Piling subpackage, smaller groups or entire construction records under a Piling ITP shall be collated for CRL acceptance
- The construction records package under an ITP shall have a document number and title.
- The construction records package under an ITP shall be logged on the readiness review deliverables tracker with a planned date
- The individual activity package's QA records (such as individual test records, checksheets etc) shall be checked by the **Agent** and his/her team to ensure the works have attained the required quality in line with the Works Information, fully signed off and loaded on the BFK EDMS (BC) progressively.
- Agent/Sub-Agent shall ensure that inspections and checking activities are carried out in accordance with approved process map/procedure C435-BFK-O4-GPD-M123-50016 Team Checking & Inspection Activities and nominated inspection personnel are identified in the document C435-BFK-O4-LRC-M123-50001 Nominated personnel for inspections.
- All construction records forming part of an ITP shall be loaded progressively on the BFK EDMS (BC) prior to submitting to the CRL Project Manager.
- The construction/ITP records submission shall include but not limited to the following and any additional records required under the Works Information and its associated Materials and Workmanship specifications:
  - 1. The activity or sub-activity title
  - 2. The relevant sub-construction package title
  - 3. Register of cube test, slump test, pull out tests etc
  - 4. Relevant ITP
  - 5. Test reports
  - 6. Checksheets, Installation records
  - 7. Records Compliance Statement (CRL Supplied Template) See appendix 14
  - 8. Health and Safety File information
  - 9. Operational & Maintenance Manual
  - 10. Any relevant records that is under CDML C12.000, C13.000, C14.000 that are not identified individually on the Readiness Review Deliverables Tracker





- Submission of these records shall be checked by the **BFK Sub-Agent /Agent** and Approved by the **BFK Agent/Construction Manager**
- The Construction/ ITP records will be in-formally submitted to CRL on hard copy two weeks prior to formal submission and will be submitted on eB for review along with Sub-Construction Certificate Listing formal submission.

# 8.2 Redline & As-built Drawings Requirement

The Agent and his/her team shall review the list of construction drawings on the Readiness Review Deliverables tracker identified during the Planning Phase to include any latest construction drawing that is not on the tracker – (See section 7.1.2 and Appendix 1). The Readiness Review Deliverables tracker's updated drawing list shall be used in conjunction with the designer's drawing register to complete the as-built redline for submission in line with the sequence below by the Agent.

Redline and As-built drawings minimum assurance matrix (C435-BFK-O-LRC-M123-50001) shall be used by Agents to determine which drawings shall be redlined and as-built. The matrix also highlights review requirement for each drawings types.

Redline drawings shall be updated progressively during the Construction Phase by a site/section engineer nominated by the Agent who have knowledge of the construction activity and access to all changes during the construction.

The redlines are to be progressively reviewed by the Sub agent and approved by the Agent on behalf of BFK. Additionally, once the redline drawings for a package of works have been completed, BFK shall informally submit the drawings to the relevant CRL Field Engineer who will arrange a redline drawing review meeting with the CRL CAD Team if required. If the drawings are acceptable to CRL they will be signed at the meeting accordingly.

Upon CRL approval the BFK Engineering team shall subsequently produce the DRIR for its submission to the CRL Project Manager through eB.

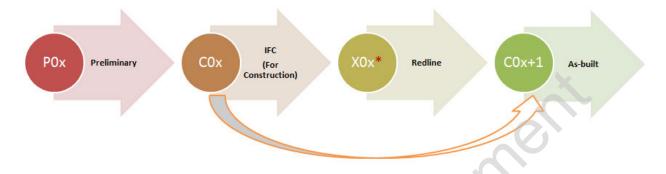
Redlines shall be prepared and submitted as follows to comply with Parts 13.3.6.2, 13.3.6.3, and 13.3.6.4 of the Works Information CRL1-XRL-V3-XWI-CR001-50035, CRL Management of Red Line Drawings Procedure CRL1-XRL-Z-GPD-CR001-50010. Further guidance on redline and as-built requirements can be found on C435-BFK-O4-MDA-M123-50002





### 8.2.1 Redline drawing revision

Redline drawings revision shall be generally in X0x format, where only one team is expected to work on the set of IFC drawings. Refer to the following typical drawing revision sequence.



\*Where multiple sub-contractors are expected to work on single IFC drawings, following redline revision number format shall be marked on the redline drawing;

### Redline Revision Code

Rev "BST-X01" (Where "BST" to be sub-contractor specific unique code for Bourne subcontractor). Sub-contractor code shall be confirmed with the Agent prior to works commencement.

### Redline Drawing Revision on Business Collaborator

On completion of redline drawing, sub-contractor shall upload the drawing on BFK document management system (Business Collaborator BC) as following; (where drawing name has been amended with "\_BST".



### Redline Drawing Revision on eB

BFK document control team shall then process above drawing on eB and update eB revision as following.







### 8.3 Significant Changes to Construction Method during Construction Phase

Where significant construction method and plan changes are identified, the Agent shall review the level of risk with the CRL Field Engineer and determine if a readiness review meeting is required. Where possible this can be accommodated in the sections weekly progress meeting in agreement with the CRL Field Engineer. A revised Readiness Review and Deliverables Tracker shall be issued formally to the CRL Field Engineer at the end of the Period after the meeting.

egacy

00cum



# 9 Sub-Construction Certification Preparation

The **Agent** is responsible for his/her sections Sub-Construction listing Certificate preparation once deliverables identified on the readiness review deliverables tracker are accepted in code 1, and 4; except specific project deliverables identified on the Core Deliverables tracker C435-BFK-Z9-TSC-M123-50017 such as the Construction Phase Plan, Environmental Management Plan, and Contractor's Quality Plan and the like.

Upon completion of the works, BFK will undertake a snagging exercise to identify any remedial works to be undertaken. Once these items have been addressed, the works are to be offered to CRL for a formal inspection – any further items identified during the CRL inspection are to be captured as Punchworks items.

# 9.1 Sub-Construction Certificate Listing and Review Statement Preparation

On completion of a sub-construction package, the **Agent** and his/her team takes the following steps to complete a Sub-Construction Certificate Listing:

- 1 week after completion of the works, the Package Deliverable Manager shall discuss in Certification meeting between the Agent, the Section Deliverable Engineer, the CRL Field Engineer and CRL Completion Engineer to review thoroughly any document required for inclusion on the Sub-Construction Certificate listing from the Readiness Review Deliverable tracker. The Readiness Review and Deliverables Tracker is maintained and updated until completion of construction where the Agent shall extract information from it for the completion of the Sub-Construction Certificate listing such that it is submitted to the CRL Project Manager within timescale specified in the Certification Package document C435-BFK-C-TSC-M123-50011.
- The Agent and Section Deliverables Engineer shall informally submit the Sub-Construction Certificate listing at least one week prior to the formal submission date to the Package Deliverable Manager, CRL Completion Engineer and CRL Project Field Engineer to ensure visibility of the progress and informal review with respect to the relevant package.
- The **Package Deliverable Manager** provides the status of all core documents to the **Agent** for inclusion on the Package listing
- The **Agent** and his/her team reviews the listings to ensure all deliverables and agreements in line with the Works Information are in code 1, and 4 (except documents as identified in section 9 above).
- The Agent takes steps to close specific snagging that are agreed to be completed before certification. BFK shall maintain internal snagging list for closeout prior to signing of packages, where the snags are not completed before completion of a sub construction certification, the agent shall log them on Punchworks and monitor their closure to meet the time scale identified on Punchwork. The Agent or Sub-Agent shall produce a schedule of inspections to identify Defects and shall raise snagging lists or outstanding works lists in Punchworks at appropriate inspection and acceptance stages to record work that has not been completed correctly or which is outstanding. The Agent shall monitor the progress of Punchworks items during the Weekly Quality Meetings.
- The **Agent** shall use the template provided by the CRL Project Manager in the Works Information Appendix 13C to prepare the Sub-construction Listing (These is also shown in Appendix 8 of this document).
- Each section of these forms shall be completed in full with relevant document numbers and their revisions as identified on the CRL Project Manager's EDMS eB. Where required on the sub-





construction listing, all eBPTR export sections shall be completed to identify all FCDs, RFIs, and NCRs relevant to the package.

- The Sub-Construction Certificate listing shall be submitted formally on eB to the CRL Project Manager by the date shown on the Certification Tracker. This is generally 4 to 5 weeks (most package 4/5 weeks). Some packages may require longer than 4 weeks, due to concrete strength certificates. The Agent shall update actual works completion date for each package in the weekly certification meeting and confirm planned submission dates with CRL PFE/FE and Certification Manager. The Certification Manager shall update certification tracker accordingly and issue informal copy weekly by email and formal copy on eB for CRL Project Manager Acceptance at every period. See current Certification Package document C435-BFK-C-TSC-M123-50011for further detail.
- Sub-Construction Certificate shall be submitted under the cover of separate CCM, however, they are to be completed, signed and submitted concomitantly.
- Please refer to Appendix 8 for a typical Sub-Construction Certificate listing

### 9.1.1 Records for Parts of the Works where BFK is not responsible for the design

The **Agent** shall identify all redline or as-built drawings on the Readiness Review Deliverables tracker as in section 7.1.2 & 8.2 above

- Drawings categorised as IFC are to be marked up as redline drawings revision X
- Using Red lines for deletion on the mark-up
- Using Green lines for additions on the mark-up
- Using Blue line for notes and specials
- RFI, FCD, and or NCR reference numbers shall be referenced on drawings where changes are identified. Revision clouds shall be used to aid identification of changes
- All changes are fully dimensioned and sketched on drawings
- The above marked-up drawings are issued to the CRL Project Manager on eB by the construction team as Revision X01 by scanning the Revision X PDF copies and loading on eB with a Register and Issue Record (RIR) on a formal CCM for the CRL Project Manager's acceptance on eB. All redline drawings are submitted with a decal sticker (placed at the section of the drawing without covering the marked- up information). Where the sticker cannot be placed on the drawing an A4 CRL standard decal sheet is used.

### 9.1.2 Records for Parts of the Works Where BFK is responsible for the design

- The Agent shall identify all redline or as-built drawings on the Readiness Review Deliverables tracker as in section 7.1.2 & 8.2 above
- Drawings categorised as IFC are to be marked up as redline drawings revision X
- Using Red lines for deletion on the mark-up
- Using Green lines for additions on the mark-up
- Using Blue line for notes and specials
- RFI, FCD, and or NCR reference numbers shall be referenced on drawings where changes are identified. Revision clouds shall be used to aid identification of any changes
- All changes are fully dimensioned and sketched on drawings
- The above marked drawings are issued through eB as identified in section 8.2.1 above. The redline drawings are approved by the CRL Project Manager prior to signing off a construction certificate.
- On acceptance of the Revision X redline drawings by the CRL Project Manager the Engineering team shall proceed with the following action





- The Engineering team electronically re-drafts the drawings to Revision C (Contractual) and Status AB (as-built) to reflect the as-built (operational) on Projectwise. This shall be prepared in line with the CRL Project Manager's CAD standard numbers CR-STD-005, document reference CRL1-X-RL-O6-STD-CR001-00014, and CS1192 Collaborative Production or Architectural, Engineering and Construction – Code of Practice
- All changes from Technical Queries, RFIs, FCDs, and NCRs shall be incorporated in the Revision C status AB drawings and references removed

### 9.1.3 Drawings not required to be As-built

The following categories of drawings are not required to be recorded as-built and are not to be included on the Readiness Review and Deliverable Trackers for Certification except where the element of permanent works is also shown on the same drawings or exceptions also stated below. For further details refer to the redline As-built minimum assurance matrix referenced in section 8.2

- Temporary works drawings, except where the temporary works are required for interim maintenance, operational or safety purposes
- Drawings showing temporary traffic management schemes including temporary road closures except where such drawings are required for interim maintenance operational or safety purpose.
- Construction access except where such access is also permanent works access
- Site clearance and demolition, except where a structure is partially demolished, or there is a requirement to inform a follow on contractor of specific risks not removed by demolition or site clearance
- Systemwide stage works drawings leading up to the final arrangement
- RIBA stage E and Preliminary Design drawings to be further developed by Contractor.
- However, construction drawings developed from these must be As-built

# 9.2 Additional Changes (PMI, NCR, FCD)

Any additional changes agreed/instructed via contact communications (PMI, NCR, FCD) shall be captured in relevant sub-construction/IRN packages. Where works are already complete and relevant sub-construction package is already accepted, this shall be revised to include additional works/documentation.

Agent shall ensure that list of PMI, NCR, FCD shall be reviewed every month for inclusion in to on-going, future packages or already accepted packages.

Refer to the Appendix-13 for process flow-chart and additional guidance.





# 10 Certification Phase

The Project Certification is categorised in three stages as identified in Part 13.4.3 of the Works Information C435-XRL-V3-XWI-M123-50001 and section 6 of this document. The completion certificates and responsibilities are outlined in the following sections below:

# **10.1 Sub-Construction Certificate**

- The Agent is responsible for preparing the Sub-Construction Certificate Listing
- The document shall make reference to the following:
  - 1. Contract number
  - 2. CMDL code
  - 3. Applicable Design Certificate number
  - 4. Contractor name
  - 5. The sub-construction certificate eB number
  - 6. Sub-Construction Certificate eB number
  - 7. Name and location of the sub-package
  - 8. Description of the precise limit covered by the sub-package scope
- The Sub-Construction Certificate shall be reviewed and only be signed on behalf of BFK by either the Project Director, the Project Manager, the Construction Manager, the Deputy Project Manager or the Agent
- Dependent upon the severity/importance of the Punchworks items, the Project Field Engineer may defer the signing of the Sub Construction Certificate, pending the satisfactory completion of any identified remedial works. Relevant Punchworks reference shall be included on the Sub-Construction Certificate Part 1 and Part 2.
- The Sub-Construction Certificate shall be submitted to the CRL Project Manager within dates identified on the Certification Record Package –Sub Construction Certificate Structure ref C435-BFK-C-TSC-M123-50011
- A typical Sub-Construction Certificate template is shown in Appendix 8.

# **10.2 Construction Certificate**

- The Agent is responsible for preparing the Construction Certificate after obtaining all the Sub-Constructions, except works that have interface with other Construction that cannot be completed at the time of this Certificate
- The Agent prepares the Construction Certificate Part 1 and completes all sections
- The **Agent** prepares a Part 2 of the Construction Certificate Listing, where applicable, 2 weeks before the signing of the Construction Certificate and follows meeting process in section 9.1.
- At Construction Certification stage, Part 2 listing is only required for deliverables that falls outside the sub-construction package certifications.
  - The document shall make reference to the following:
    - 1. Contract number
    - 2. CMDL code

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- 3. Applicable Design Certificate number
- 4. Contractor name
- 5. The Construction certificate eB number
- 6. The Part 2 of the Construction Certificate Listing For works that falls outside the sub-construction package certificates. If this is not applicable simply insert 'N/A'
- 7. Name and location of the Construction Package
- 8. Description of the precise limit covered by the Construction package scope
- The Construction Certificate shall be reviewed and only be signed on behalf of BFK by either the **Project Director**, the **Project Manager** or the **Construction Manager**
- The Certificate shall be submitted to the CRL Project Manager within a week of completion of all Punchworks items and sub-Construction certificates sign-off.
- A typical Construction Certificate template is shown in Appendix 9

### **10.3 Whole Contract Construction Certificate**

- The **Construction Manager** is responsible for preparing the Whole Contract Construction Certificate after obtaining all the Construction certificates
- The **Construction Manager** prepares the Whole Contract Construction Certificate and completes all sections of the certificate.
- The **Construction Manager** prepares a Whole Contract Construction Listing (where applicable) 2weeks before the submission of this Certificate and follows meeting process in section 9.1 involving all **Agents** and Key Subcontractors.
- At Whole Contract Construction Certification stage, Certificate listing Part 2 is only required for deliverables that falls outside Sub-construction and Construction certificates.
- The document shall make reference to the following:
  - 1. Contract number
  - 2. CMDL code
  - 3. Applicable Design Certificate number
  - 4. Contractor name
  - 5. The Whole Contract Construction certificate eB number
  - 6. The Whole Contract Construction Listing Part 2 For works that falls outside the Construction certificates. If this is not applicable simply insert 'N/A'
  - 7. Name and location of the Project
  - 8. Description of the precise limit covered by the Project scope
- The Whole Contract Construction Certificate shall be reviewed and only be signed on behalf of BFK by the Project Director. The Project Director may choose to delegate this power to the Section Manager. In this case the Section Manager shall sign on behalf of BFK
- The Certificate shall be submitted within the programmed date.
- A typical Whole Contract Construction Certificate template is shown in Appendix 10





# **11** Summary Process of Deliverable Planning and Certification

The below Appendix 11 shows a summarised process from planning stage to certification of the BFK process in line with the Works Information C435-XRL-V3-XWI-M123-50001 (in particular for sub-construction packages)

# 12 Reporting of Deliverables and Certification

Agents shall be responsible for reporting their section deliverables progress to the **Package Deliverable Manager** for a Project Report.

The **Package Deliverable Manager** shall be responsible for reporting the general status of deliverables of the Project.

- Progress of deliverables shall be included in the Periodic KPI dashboard report to CRL and discussed at the Periodic Quality Focus Meeting
- The **Package Deliverable Manager** shall attend the Periodic QFM and discuss deliverables status, including potential delays
- The Readiness Review Deliverables tracker shall identify the status of each deliverable under a package. This is submitted to the CRL Project Manager in line with Part 13 of the Works Information C435-XRL-V3-XWI-M123-50001 each Period.
- Progress of Certification Packages are tracked on the respective discipline trackers in the 'Certificate Record Packages – Sub-Construction Certification Structure' with document number C435-BFK-C-TSC-M123-50011 issued to the CRL Project Manager each Period
- The Certification tracker shall include the dates for readiness review meetings for the different packages, including meetings covering manufacturing and prototype fabrication for Architectural works.

# 13 Asset Management and Asset Tagging

New assets will be registered in the appropriate fields within the CRL Asset Information Management System (AIMS). Team BFK Asset Manager will manage the process as described in volume 2B section 13.5, of the Works Information.

# 14 MEP Readiness Review and Certification Procedure

Refer to the MEP specific eB document C435-BFK-O4-GPS-M123-50005, which includes MEP Readiness Review and Certification Procedure and relevant certificates and readiness review trackers.

### List of MEP Certificates

Acceptance Certificate Template

Partial Acceptance Certificate Template

Pre-Commissioning Certificate Template

Installation Release Notice Template

MEP & System wide Certification Package Listing Template





# 15 Lifts & Escalator Readiness Review and Certification

Readiness to review process described in this document will be followed for Lifts & Escalator works.

Certificate templates provided in communication C434-PMI-00740 shall be used for works certification. Refer to Project Certification document C435-BFK-C-TSC-M123-50011 for details of Lifts & Escalator IRN/PCC/PAC & ACs.

Readiness to review tracker for Lifts & Escalator will be same as MEP works. Refer to eB document C435-BFK-M1-TSC-M123-50013 for latest document.

# 16 Health and Safety File

Health & Safety File shall be produced for each interim handovers and Project Health & Safety file will be produced after completion of all works at the end of the project. Crossrail template (CR-XRL-Z7-ZTM-CR001-50001) to be used for production of H&S File and to be issued in accordance with the clarification provided in C435-RFI-004077.

Agent is responsible for preparing section specific Health & Safety File at the end of the sectional works and Project Manager shall be responsible to ensure that produce Project Health & Safety File at the end of works.

# 17 Operational & Maintenance Manual

Construction Manager and Agent for relevant section of works (Civils, Architectural, MEP etc.) shall produce Operational & Maintenance Manual in accordance with the instruction, guidance and templates provided in the communication **C435-PMI-00695**. Agent shall also ensure that relevant subcontractors have been briefed and aware of O&M requirement and required input.





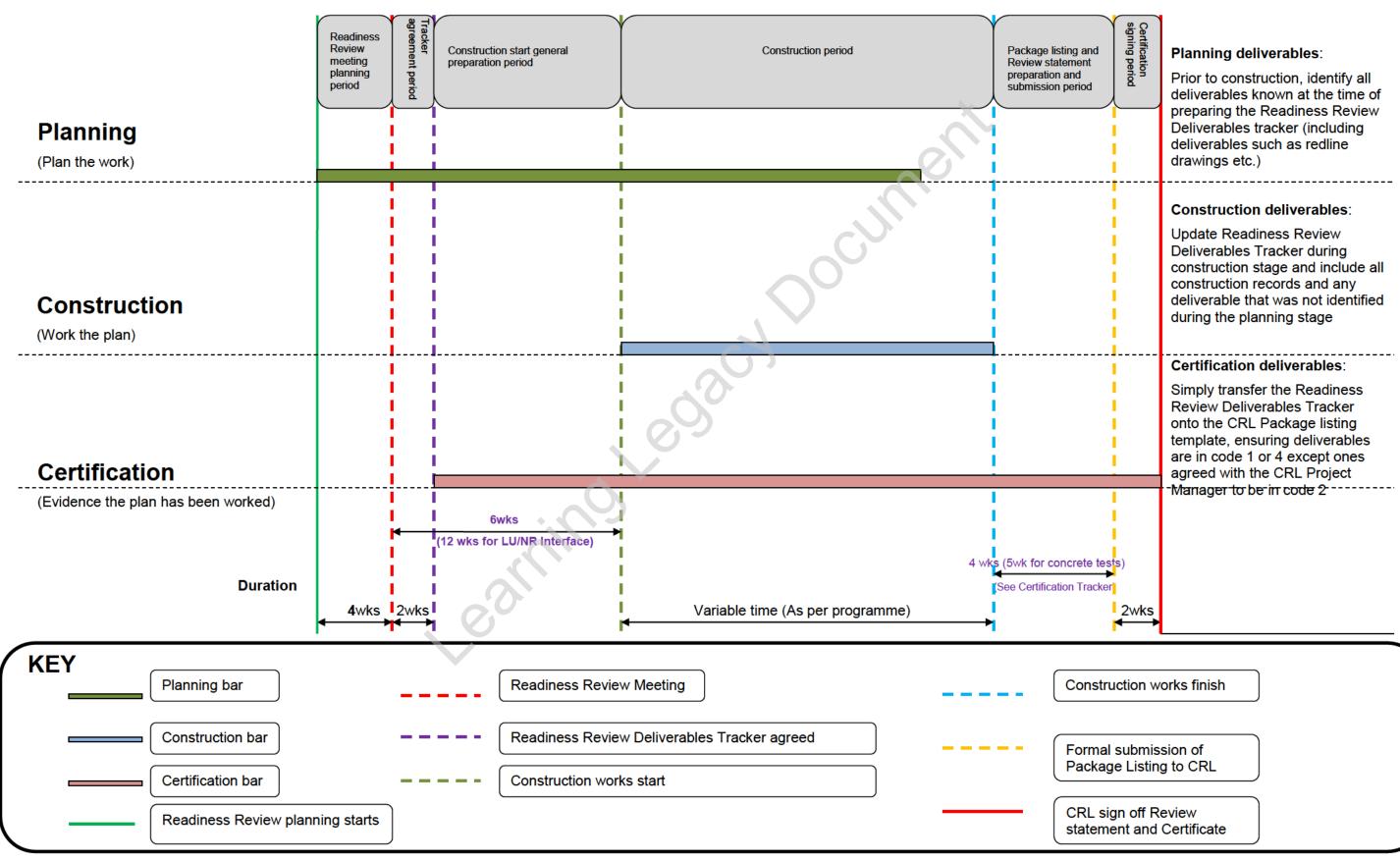
### Appendices 18

earning Legacy Document





### 18.1 Appendix 1 – Readiness Review and Certification Planning Overview







# 18.2 Appendix 2 – Typical example of the Readiness Review Checklist (To be used in the preparation of the Readiness Review and Deliverables Tracker and Agent's Presentation)

Contract: C435 Far	ringdon Station		·	·	·	C435 Rea	adiness Re	view Check	dist/Delivera	able - rev 2		·			(	CMDL Co	de: C01.	003 upda	ted on:	
				ctivity ID							Complete for Readi	iness/Certification			3days to submission					Complete this for Certification
Discipline name			dd/m	m/yyyy				ETED FOR		Code 1		Completed by		Sign	& overdue					
eg. ETH			Start date	Finish date			REA	DINESS				Author			Required within					<b>•</b>
Sub package name			dd/mm/yyyy	dd/mm/yyy	Risk level key		Checklist wain	oforon converte		Code 2		Dovinue d he		Sign	3 to 14days					Verified for continuation by
Sub-package name eg. Lindsey street bridge			Activity		Low Mredium		Checklist unique I ETH/LSB/P/001	elerence number		Code 3		Reviewed by Agent		Sign	14days to submission					Verified for certification by Package Deliverable Manager
				and and a	uish and					I shind a st		ed to commence	works/	Sign	Not due - Over 14days					Approved for Certification by
Checklist eB reference no C435-BFK-S-XXX-M123-20001	Agent refers to this sche required delivera								evant safety criticang at Readiness Re			certification Construction Manag	er	olgi	to submission					Project Manager
	All items identified with a	a CMDL num	nber on this l	list are delive		re required to or the activity		submission if ap	plicable to the su	b-construction	package		Third party if							
													applicable (Select from	BFK		DEV	DEK		CDI	
ltem No Descri			Note: The re	eadiness revi	iew and deliv	erables tracke	er is a modificati	on of thie templ	ate.		ner	CRL Owner if applicable	dropdown lists) - if not in list	Planned	Due date colour code	BFK Actual	BFK Finish	CRL start date	CRL finish	Comments
		required	(select)	appropriate)		(YES, NO, N/A)	dropdown as appropriate)			dropdown)			please identify in comments	Start date		start date	date		date	
		(select)				nusy	appropriate)						section							
1 Notifications																				
1.2 Has CRL provided access to	o properties?	YES		Completed & closed - see	Low		N/A for this activity	N/A	n/a	N/A	Husam El-Darsh	CM	Not Applicable	n/a		n/a	n/a	N/A	N/A	Completed and closed
				deliverable eB ref where											#VALUE!					
		YES		applicable Completed &	Low															
1.4 Notifications to local authority			the works	closed - see deliverable eB																
1.5 Any notification of local automy     1.7 Notification to local autority s	prity required?																			
1.8 Network Rail Asset Protectio	on Agreement (APA) Briefs																			
1.9 Network Rail Implementation	n Agreement (IA) Briefs																			
progressed/agreed? 1.10 London Underground Conces		100	<b>D</b> : 1											0410710040			00.1.1.40	00/07/00/40	05/00/0040	
1.11 Are the works being carried- LU/NR/DLR asset or propert	rty?	YES		Not started - see start date	High	NO	N/A for this activity	n/a	n/a	N/A	Husam El-Darsh	СМ	LUL/NR/EA	01/07/2012	-213		30-Jul-12	30/07/2012	05/08/2012	Thrird party liaising ongoing with LU, NR, EA
	R/DLR assets checked/confirmed Line Runners drawings or NR/DLR								AU											
assets drawings/records? 1.13 Baseline monitoring of Third	d parties assets undertaken?																			
	rdination and notification undertaken																			
	essment completed and agreed																			
with relevant stakeholders? 1.16 Provision of notification to Uti																				
day notice to be given if in pri	np works & construction plant)? 28 private land in accordance with																			
Schedule 17 Para 8 of Cross 1.17 Are there plans and evidence																				
notification and agreement v	with Utility companies?	YES	Prior to	Completed &	Low	YES	YES	C01.013	C435-BFK-XXX-SSS-	code 4	Community	СМ	LA (see	N/A		N/A	N/A	N/A	N/A	Completed and closed
				closed - see deliverable eB					2		Liaison Manager/Agent		comments)		#VALUE!					
Advance notification informat	ation sheet			ref where applicable																
Insert new lines above this line																				
2 Programme planning	wn schedule leading up to the																			
2.1 Works?	e for the planned works within the																			
2.2 possession?	-	YES	Prior to	Completed &	Low		N/A for this	N/A	N/A	N/A	Husam El- Darsh	CM	Not Applicable	N/A		N/A	N/A	N/A	N/A	Completed and closed
Here a Land norman been a	assigned for the possession?	.23	the works	closed - see deliverable eB			activity	1963	1973		nasan Cr Daisti	C III	nor Applicable		#VALUE!			140		Compoted and electric
	original for the pubblebaluri			ref where applicable																
2.3 Has the Lead person create	ted an Integrated Work Plan ing this works? (check deliverables			аррисале																
2.4 and allocate appropriately)	dule showing all disciplines and their																			
2.5 interface for this works?																				
2.6 progress equate to the actual	schedule? Does the expected ual progress for all disciplines? ule are areas of delay identified and																			
2.7 recovery plan for each task in	in place?																			
	egy agreed with operations and							C08.063												
2.9 maintenance and has relevan Has a contingency plan been	en discussed with the team																			
In a third party environment, i	inor changes during the works? , is a daily handover stragety of the																			
2.11 site agreed with the third part Are there any projected spec	ecific interfaces that will cause																			
2.12 difficulties during this activity	<u>r</u>							I	1											

Crossrail



# 18.3 Appendix 3 – Typical Template for Readiness Review and Deliverables Tracker (For use by all disciplines except SCL – See Appendix 4 for SCL Template)

Contract: C435 Farringdon Station C	435 Utilitie	es PMI 0	09 & 031	- Diversion	n of 14" and 30" W	atermains	on Farrin	gdon Roa	d Delivera	ble Track	er C43	85-BFK-	U-TSC-I	123-5	0001 re	v3 c	MDL Cod	e: C01.003 updated on: 18/01/2013
viscipline name				CO		Code 1	Complete for Read	Completed by		1		submission & overdue						complete this for Certification
tilities		Prog	gramme		erables - Utilities	Code 1												
		Start date	Finish date									Required within						
	-					Code 2		Deviewed by				3 to 14days						
ub-package name MI 009 & 031 - Diversion of 14" and 30" Watermains on Farringdon		16/00/2012	26/01/2013					Reviewed by				14days to						erified for certification by: ackage Deliverable Manager
load			Risk level key			Code 3			1			submission						
Checklist eB reference no :			Low			Code 4	Verm	ed to commence certification:	works/			Not due - Over					Ap	proved for Certification by:
√a #REF!	]		Medium					N/A at this stage										Project Manager
#REF:			High			Submitted awaiting response												
tem No Description of action	Applicable Sub Package (Please select)	At what stage will this be actioned (select)	Risk level (Select)	CMDL No.	eB Document Reference No.	Current code if applicable (select from dropdown)	BFK owner	CRL Owner if applicable	Third party if applicable (Select from dropdown lists) - if not in list please identify in comments section	CRL review (state requirement for document subnission eg. CRL-Acceptance o CRL-Information)	BFK Planned submissi on date	Due date colour code	BFK Submission Actual date	BFK document required date from CRL (Preferred CRL response date)	CRL Planned response date (Contractu al)	CRL Actual reponse date	CRL Return date colour code (if returned then coded againsi return date - showing deviation)	Comments
	•		· •		2	· ·		-			•	•	*		*	T		
4.10 Consents Discharge consent for manhole TQ31815789		Prior to	Medium					СМ		CRL-Acceptance			11/10/2012					
-		the works		007.004	C435-BFK-T1-QAP-M123-50014								1 10/2012					
Section 61 with Camden (PMI 009 - Trial hole at north and south pit locations)		Prior to the works	Medium	C07.004	C435-BFK-T1-NOX-M123-50007	submitted awaiting response		СМ		CRL-Acceptance								
Section 61 with Camden (PMI031 - Phase 2 Works)		Prior to the works	Low	C07.004	C435-BFK-T1-NOX-M123-50001	code 4		СМ		CRL-Information			30/08/2012			05/09/2012		Valid from 17/08/2012 to 03/11/2012
Extension of Section 61 with Camden		Prior to	Low					СМ		CRL - Information								Valid till 21/12/2012
(Phase 2 works) Section 61 with Islington		the works Prior to	Medium	C07.004		code 4		CM		CRL-Information			24/08/2012			05/09/2012		Valid from 16/08/2012 to 02/10/2012
Delivery Corridor Alterations 5.11 ITP's		the works			C435-BFK-T1-NOX-M123-50002													
Trial Holes in Farringdon Road		Prior to	Medium	C12.005	C435-BFK-C-ITP-M123-50023	code 1		PFE	TWUL - For	CRL-Acceptance			19/07/2012			31/07/2012		
Rider Main Installation		the works Prior to	Low	C12.005	Rev 3.0 C435-BFK-C-ITP-M123-50024	code 1		PFE	Acceptance TWUL - For	CRL-Acceptance			06/12/2012			13/12/2012		
Sinking Pits and Installation of valves		the works Prior to	Medium	C12.005	Rev 6.0 C435-BFK-C-ITP-M123-50025	code 1		PFE	Acceptance TWUL - For	CRL-Acceptance			29/11/2012			05/12/2012		
		the works			Rev 3.0				Acceptance									
Road Widening beyond the delivery corridor		Prior to the works	Medium	C12.005	C435-BFK-C-ITP-M123-50026 Rev 1.0	code 1		PFE	Not Applicable	CRL-Acceptance			08/08/2012			22/08/2012		
6.1 Temporary and Permanent works design Temporary Works Design Check Certificate - Trial Holes in		Prior to	Medium	C09.007	C435-BFK-C-CER-M123-50010	code 2			TWUL - For	CRL-Acceptance			19/07/2012			31/07/2012		
Farringdon Road		the works			Rev 1.0				Information									
Temporary Works Check Certificate - Utilities - N & S Pit Excavation and RC Thrust Block		Prior to the works	Medium	C09.007	C435-BFK-C-CER-M123-50038 Rev 1.0	code 1			TWUL - For Information	CRL-Acceptance			03/10/2012			22/10/2012		
Design Brief No. 502 - Reinstatement of Trial Holes in Farringdon Road		Prior to the works	Low	C09.003	C435-BFK-C-RGN-M123-50040 Rev 1.0	code 4		EM		CRL-Information			24/07/2012			07/08/2012		
Temporary Works Design Brief - Utilities - Installation of valves in		Prior to	High	C09.003	C435-BFK-C-RGN-M123-50050 Rev 1.0	code 4		EM	TWUL - For	CRL-Information			10/08/2012			17/08/2012		
south pit on Farringdon Road Design Brief No. 506 - Utilities -Pipe Bridge over Greville Street		the works Prior to	Low	C09.003	C435-BFK-C-RGN-M123-50052	code 4		EM	Information TWUL - For	CRL-Information			10/08/2012			22/08/2012		
Design Brief No. 507 - Utilities - Concrete Vehicle Barrier on		the works Prior to	Medium	C09.003	Rev 1.0 C435-BFK-C-RGN-M123-50051	code 4		EM	Information	CRL-Information	<b></b>		14/08/2012			22/08/2012		
Farringdon Road		the works Prior to	Medium	C09.006	Rev 1.0 C435-BFK-C-RGN-M123-50072					твс								
Temporary Works Design Pacakage -Utilities - Concrete Vehicle Barrier for Farringdon Road		the works			Rev 1.0													
Temporary Works Design Pacakage -Utilities - Diversion of 4 inch Main Farringdon Road		Prior to the works	Medium	C09.006	C435-BFK-C-RGN-M123-50073 Rev 1.0	code 1		EM	TWUL - For Information	CRL-Acceptance			02/10/2012			18/10/2012		
Temporary Works Design Package - Utilities - N & S Pit Excavation and RC Thrust Block		Prior to the works	Medium	C09.006	C435-BFK-C-RGN-M123-50079 Rev 1.0	code 1			TWUL - For Information	CRL-Acceptance			03/10/2012			22/10/2012		
Temporary Works Design Package - Utilities - 2 No. Rider Mains		Prior to	Low	C09.006	C435-BFK-U-RGN-M123-50005	code 1		EM	TWUL - For	CRL-Acceptance			04/12/2012			09/12/2012		
along Farringdon Road Temporary Works Design Package - Utilities - Installation of		the works Prior to	High	C09.006	Rev 2.0 C435-BFK-U-RGN-M123-50007	code 3		EM	Information TWUL - For	CRL-Acceptance	24/10/2012		25/10/2012			23/11/2012		This Design Package has been superseded by C4
linestops within north and south pits on Farringdon Road Temporary Works Design Package - Utilites - Rider main thrust		the works Prior to	Medium	C09.006	Rev 1.0 C435-BFK-U-RGN-M123-50010	code 1		EM	Information	CRL-Acceptance			16/11/2012			29/11/2012		BFK-U-RGN-M123-50005 Rev 2.0
block design		the works																
Temporary Works Design Package - Utillites - Timber sheet / Cradles design check		Prior to the works	Medium	C09.006	C435-BFK-U-RGN-M123-50011	code 1		EM		CRL-Acceptance			14/12/2012			08/01/2013		
Temporary Works Design Package - Utilities - Ramp Shutter and Reinforced Design Check		Prior to the works	Medium	C09.006	C435-BFK-U-RGN-M123-50012	code 4		EM		CRL-Acceptance			09/11/2012			23/11/2012		
Temporary Works Design Package - Utilities - Raised Rider Main		Prior to	Medium	C09.006	C435-BFK-U-RGN-M123-50013	code 3		ЕМ		CRL -Acceptance			14/11/2012			23/11/2012		
Cradle Design Action Plan		the works			Rev 1.0													
8.3 Method statement / risk assessment																		
Trial Hole no. 1 for 14" and 30" Mains		Prior to	Medium	C12.003	C435-BFK-C-GMS-M123-50088	code 1		PFE	TWUL - For	CRL-Acceptance			13/07/2012			18/07/2012		
Trial Hole no. 2 for 14" and 30" Mains		the works Prior to	Medium	C12.003	Rev 2.0 C435-BFK-C-GMS-M123-50089	code 1		PFE	Acceptance TWUL - For	CRL-Acceptance			20/07/2012			24/07/2012		
Construction of 2 No. PE/DI Rider Mains off the 14" and 30"		the works Prior to	Medium	C12.003	Rev 3.0 C435-BFK-C-GMS-M123-50146	code 1		PFE	Acceptance TWUL - For	CRL-Acceptance	03/10/2012		01/10/2012			23/10/2012		Previously Code 2 Accepted. Updated to Code 1
Thames Water Mains on Farringdon Road		the works			Rev 3.0				Acceptance			ļ						following receipt of the signed WCRF
14" and 30" Water main works of sinking pits and trial holes to locate the branch mains, installation of line stops and valves on		Prior to the works	High	C12.003	C435-BFK-C-GMS-M123-50147 Rev 2.0	code 1		PFE	TWUL - For Acceptance	CRL-Acceptance			18/08/2012			28/09/2012		
Thames Water mains Farringdon Road Farringdon Road widening of carriageway on southbound lane into		Prior to	Medium	C12.003	C435-BFK-C-GMS-M123-50150	code 1		PFE		CRL-Acceptance		├───	16/08/2012			28/09/2012		l
the delivery corridor		the works			Rev 2.0													
Construction of Concrete In-situ crash barriers to facilitate the excavation of the southern pit on Farringdon Road		Prior to the works	Medium	C12.003	C435-BFK-C-GMS-M123-50155 Rev 3.0	code 4		PFE		CRL-Acceptance			14/09/2012			26/10/2012		
Installation/Removal of Traffic Management on Farringdon Road		Prior to the works	Medium	C12.003	C435-BFK-C-GMS-M123-50160 Rev 1.0	code 1		PFE		CRL-Acceptance			16/10/2012			18/10/2012		
Diversion of 4" Main around southern pit on Farringdon Road		Prior to	Medium	C12.003	C435-BFK-C-GMS-M123-50164	code 1		PFE	TWUL - For	CRL-Acceptance			21/09/2012			03/10/2012		
Decommissioning of 6" Cast Iron Watermain around southern pit		the works Prior to	Medium	C12.003	Rev 2.0	code 1		PFE	Acceptance TWUL - For	CRL-Acceptance	04/10/2012		10/10/2012			23/10/2012		Previously Code 2 Accepted. Updated to Code 1
on Farringdon Road		the works			C435-BFK-U-GMS-M123-50002				Acceptance									following receipt of the signed WCRF





# 18.4 Appendix 4 – Typical Template for Readiness Review and Deliverables Tracker for SCL works only

| Robbe's numbers of shame   
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  |                                |   |  |  |  | KEY   |   | Required Not due - Over availing within 3 to 14 days to response Approved  
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| Doos required Site Set up 13   
  | Number of CODES 1. 2 or 4   | 1 Doos required tunnel exo   |   
  | 11   
   |   
  |  |   
  |                                |   |  |  |  |   | ╀─┼   | 14days submission (8) (A)  
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| Doos required Site Set up LU LON 3 Doos required Site Set up (NR) 3  
  | N. of doos LU has accepted<br>DRN received from NR (No objection)   | Doos required tunnel exce     Doos required tunnel exce  |   
  | 1<br>on 1  
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  | 30/01/2013  |  |   
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| CRL Document Reference CMDL Curr<br>Number Code ent<br>doc<br>um<br>ent<br>cod   
  | Docuement tellärlefdescription  | Pocum<br>ent<br>type<br>required by<br>CRL?<br>CRL?  | al Other hard Submission Submission<br>ace Party formal<br>socceptance<br>required? Name of third parties<br>hard Party   
  | Latest Latest<br>submission<br>submission<br>submission<br>date to CRL date to CRL Progr<br>8 Review of<br>0 third parties   
   | A1<br>ram Start \$<br>Date 8<br>3   
  |  | Rev 1   
  |                                | Rev 2   | F  | Rev 3  |  | Rev 4   |   | COMMENTS   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
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  | d and the second   
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  | date<br>issued CC  | date of<br>respons   |                                | | | | | | | | | | | | |
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| Plans and Procdures<br>C 35-8FK-C-8TP-M123-5000 C1 .008 2  
  | 1 Management Plan for Control of Ground Movement  | P 🖌 🖌 🖌  |   
  | 84days 03days<br>03/12 2012 26 0   
   | 02/2013 14  
  | 10 05/2012 CCN   | 400165 18/06/2012   
  | PMC-00256                      | 13/07/2012 CCM-0037 06/08/2012 PMC-00 39 2  | /08/2012 CCM-0055  | 92 18/09 2012 PMC  | 00593 26/09/2012 CCI                                   | M-0070 09 12/2012   | 2 PMC-01233   | Code 2 (MPcdM Rev 4 just applicable to SCL Phase 1)  
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C-8TP-M123-50008 C15.001 1<br>C 35-8FK-C -8TP-M123-50001 C15.015 3  
  | Construction Management Plan - SCL Tunnel Construction     Action Plan - SCL Action Plan (In-Tunnel)  | on P ✓ ✓ ✓ ✓   | LUINR 06/11/2012 28/01/20<br>LUINR 06/11/2012 28/01/20  
  |  
   | 02/2013 14<br>02/2013 14  
  |  | A00686 26/10/2012<br>A01280 15/01/2013  
  |                                | 1 /11/2012 CCM-01062 03/12/2012 PMC-01167<br>17/01/2013 CCM-01538   |  |  |  |   |   | Code 1 (With LU & NR for nfo)<br>Rev 2 submitted await ng for response   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C-8TP-M123-50093 C1 .007 3  
  | 0 Action Plan: C 35 - West Ticket Ha I Area   | P 🖌 🖌 🖌  | LUINR 06/11/2012 28/01/20   
  | 03/12 2012 25 0  
   | 02/2013 14  
  | 12 12/2012 CCN   | 40130 19/01/2013  
  | PMC-01530                      |   |  |  |  |   |   | Rev 1 with code 3  
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-BFK-C -8TP-M123-50019 C05.007 3<br>C 35-BFK-T1-8TP-M123-50010 C07.002 1   
  | 0 Incident Plan for SCL Tunnels<br>1 Water Management Plan  | P 🖌  | 28/11/2012 28/01/20<br>20/11/2012 28/01/20  
  |  
   | 02/2013 14<br>02/2013 14  
  |  | A01223 21/12/2012<br>A00213 28/06/2012  
  | PMC-01 12<br>PMC-00293         | 05/12/2012 CCM-012 8 08/01/2012 PMC-01 25   |  |  |  |   |   | Rev 2 being prepared<br>Code 1   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-T3-8TP-M123-50002 C10.012 3<br>C 35-8FK-C-8TP-M123-50003 C11.002 3 0  
  | 0 Tunnel Construction Trafic Management Plan<br>WPP for LU  | P 🖌  | 28/11/2012 28/01/20<br>LU 28/01/20  
  | 24/12/2012 260   
   | 02/2013 14<br>02/2013 14  
  | 0 12/2012 CCN  | A01226 21/12/2012<br>A00111 31/05/2012  
  | PMC-01 15                      |   | 8/05/2012 CCM-0026   | 69 05/07 2012 PMC-   | 00322 20/07/2012 CCI                                   | W-00 36 26 09/2012  | 2 PMC-00616   | Rev 2 being prepared<br>Ed preparing Rev 7 0 ?   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-F-AAG-M123-50001 C11.006 1 1  
  | APA or NR   |  | NR 28/01/20   
  | 180  
   | 02/2013 14  
  |  | 400125 31/05/2012   
  |                                |   | 9/06/2012 CCM-0030   |  |  | W0061 19 10/2012  |   | Code 1   
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
|  
  | Emergency Preparedness Plan or LU<br>Emergency Preparedness Plan or TW (To be confirmed)  | P  |   
  | 260  
   | 02/2013 14<br>14  
  |  |   
  |                                |   |  |  |  |   |   | Not Required for phase 1<br>Prepared by 3rd party Depends If 3 W1 excavation is on Phase 1?  
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| RAMS<br>C 35-8FK-C -8TP-M123-50018 C1 .00  
  | 0 Monitoring Plan and Procedure for In-Tunnel Monitoring  | RAMB 🖌   | 84days 03days<br>26/11/2012 28/01/20  
  |  
   | 02/2013 14  
  |  | 4015 6  
  |                                |   |  |  |  |   |   | Revision 1 been submitted  
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C-GMB-M123-50215 C12.003<br>C 35-8FK-C-GMB-M123-5021 C12.003  
  | 0 Dewa ering and Depressurisation<br>0 Pipe arch insta lation   | RAME V V   | LUNR 26/11/2012 28/01/20<br>LUNR 26/11/2012 28/01/20  
  | 24/12/2012 260   
   | 02/2013 14<br>02/2013 14  
  | 21 01/2013 CCM   | 401576<br>401577  
  |                                |   |  | + $+$  |  |   | +   | awaiting respond on revision 1<br>awaiting respond on revision 1   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-BFK-C -QMB-M123-50003 C12.003   
  | 0 Survey Control or Tunnel Algnment   | RAMB 🖌   | 26/11/2012 28/01/20   
  | 24/12/2012 250   
   | 02/2013 14  
  |  | 4015 5  
  |                                |   |  |  |  |   |   | awaiting respond for rev 1   
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| C435-BPK-C-GMS-M123-50199 C12 003  
  | 1 Sprayed Concrete Testing During Construction<br>SII-W2 Shaft Tunnel Ryes Breakout   |  | Zó/11/2012         Z8/01/20           II         LU/NR         17/03/2013         19/05/20  
  |  
   | 02/2013 14<br>05/2013 45 14   
  | 19/11/2012 CCM   | 401079 29/11/2013   
  | 2 PMC-01136                    | 17/12/2012 CCM-01301 21/12/2012 PMC-01 16   |  |  |  |   | ╧┠  | Rev 3 being prepared   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
|  
  | 0 SCL Phase One Tunnels Construction<br>SCL Phase One Site Set-Up   | RAME V V V   | LU/NR 06/11/2012 28/01/20   
  |  
   |   
  |  | H01259 21/12/2012   
  |                                | 21/01/2013 CC/M0157   |  |  |  |   |   | Rev 2 being prepared<br>rev 2 has been sent  
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C -GM8-M123-5000 C12.003 3  
  | 0 SCL Phase One P t Top Operation<br>Installation of cabins in Snow Hi I Basement Lay-Down A  | RAME 🖌 🖌 🖌   |   
  |  
   |   
  |  | 401179 21/12/201  
  |                                |   |  |  |  |   |   | Rev 2 being prepared<br>Rev 2 being prepared<br>Short notice change to snow N i basement   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| emporary Works Des grs   
  | Installation of cabins in Snow Hi I Basement Lay-Down A   |  | 66days 28days   
  | 68days 28days  
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  | 1<br>1 / 1                     |   |  |  |  |   |   | enal notice charge to show in i basement   
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C-RGN-M123-500 9 C09.003<br>C 35-8FK-U-RGN-M123-5000 C09.006 1  
  | Tunneis   | Y TWD V  | 10/11/2012 12/01/20<br>10/11/2012 12/01/20  
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   | 02/2013 14<br>02/2013 14  
  | 10/08/2012 CCM   |   
  | 2 PMC-00532<br>2 PMC-00975     |   |  | + $+$  | +  |   | + +   | | | | | | | | | |
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  | Temperary Lightning   | TWD 7  | 34/11/2012 12/01/20<br>34/11/2013 38/01/20  
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|  
  | Removal of basement wall section  |  |   
  | 21/01/2013 180   
   | 02/2013   
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  |                                |   |  |  |  |   |   | with WD<br>with WD   
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  | DavtArms  |  |   
  | 21/01/2013 180   
   | 02/2013   
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| 0  
  | 0 Mobile Frame for Nozze man Accreditation  |  |   
  |  
   | 02/2013   
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  |                                |   |  |  |  |   |   | Being prepared<br>Being prepared   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
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| C 35-8FK-C-RQN-M123-50165 1 I Ps   
  | Design br ef No. 15 - Mobile Frame for Nozzieman  |  | 84days 03days   
  | 84days 03days  
   |   
  | 18/12/2012 CCM   | F1 88) 19/01/201  
  | 3 PMC-015 2                    |   |  |  |  |   |   | Code 1   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| C 35-8FK-C -ITP-M123-50001 C12.005 3   
  | 0 511/12 - PL1 Pl at Tunnel - Excayatan and Support   | m  | 25/11/2012 28/01/20   
  | 24/12/2012 250   
   | 02/2013 14  
  | 31/10/2012 CCM   | 400965 16/11/2012   
  | 2 PMC-00985                    | 21/12/2013 CCM-01382 11/01/2013 PMC-01 60   | 16/01/2013 CCM-0150  | 03   |  |   |   | Awa t ng response to Rev 3   
   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
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| C 35-8FK-C -ITP-M123-50002 C12.005 1   
  | 1 51W2 - PL1 Pl at Tunnel - Sprayed Concre e Production Tec Ing   | m 🖌  | 27/11/2012 29/01/20   
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  | 31/10/2012 CCM   | 00000   
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|  
  | 1 51W2 - PL1 Plot Tunnel - Pipe Arch Instaliation<br>STW2 - PL1 Plot Tunnel - Dewatering and Depressurisation   | m 🖌  | 28/11/2012 30/01/20   
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  | 2 PMC-00937                    | 21/12/2012 CCM-01381 08/01/2012 PMC-01 36   |  |  |  |   |   | | | | | | | | | |
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| C435-8PK-C4-ITP-M123-50004 C12.005<br>C435-8PK-C4-ITP-M123-50005 C12.005   
  | STW2 Enlargement - Excavation and Support   | а птр 🖌  | 28/11/2012 30/01/20   
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  | 2 PMC-009 3                    | 21/12/2012 CCM-01381 08/01/2012 PMC-01 55<br>21/12/2012 CCM-01383 11/01/2013 PMC-01 62  | 16/01/2013 CCM-01 9  | 91 1901 2013 PMC-  | 01561  |   | +   | Code 2<br>Rev 1 with code 3  
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| CHAPTER CONTRACTOR CONTRACTOR  
  |   | ПТР 🖌  | 28/11/2012 30/91/20<br>13/12/2012 14/02/20  
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   |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
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| C435-BPK-C4-ITP-M123-50006 C12.005   
  | STW2 Enlargement - Sprayed Concrete Production Testing<br>STW2 Enlargement - Dewstering and Depressurisation  | Image: Constraint of the state o  | 38/11/2012         38/91/20           13/12/2013         14/92/24           13/12/2013         14/92/24           13/12/2013         14/92/24           13/12/2013         14/92/24  
   | 1         24/12/2012         260           49         08/02/2013         12/0           1         08/02/2013         12/0           1         08/02/2013         12/0           1         08/02/2013         12/0           1         12/0         12/0   
  | 02/2013 14<br>04/2013 8 14<br>04/2013 14<br>04/2013 14<br>04/2013 8 14   
   | 31/10/2012 CCM   | 400967 10/11/2012  | 2 PMC-009 3                    | | | | | | | | | | | | |
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  | STW2 Enlargement - Sprayed Concrete Production Testing  | Image: Constraint of the state o  | 28/11/2012 300129<br>13/12/2012 14/02/20<br>13/12/2012 14/02/20<br>13/12/2012 14/02/20   
   | 1         24/12/2012         26 0           49         08/02/2013         12/0           1         08/02/2013         12/0           1         08/02/2013         12/0           1         08/02/2013         12/0           1         49         08/02/2013         12/0           1         49         08/02/2013         12/0           1         49         08/02/2013         12/0   
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  | 16/01/2013 CCM401 S  | 91 1901 2013 PMC-  | 01561  |   |   | Code 2<br>Rev1 with code 3<br>Once accepted with the replicated and sent<br>availing repond to rev 1   |  |   
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| C435-BPK-C4-TTP-M123-50006 C12.005<br>C435-BPK-C4-TTP-M123-50007 C12.005<br>C435-BPK-C4-TTP-M123-50008 C12.005<br>C435-BPK-C4-TTP-M123-50009 C12.005   
  | ETW2 Enlargement - Sprayed Concrete Production Teeting<br>TW2 Enlargement - Dematring and Depressurination<br>TFW2 Enlargement - Pipe Arch Installation (when app Icab)<br>P.11 Enlargement - Sprayed Concrete Production Teeting   | ↓         ↓         ↓         ↓         ↓           111         ↓ <td>301         301/17/012         301/17/012         14/02/24           131/12/012         14/02/24         13/12/012         14/02/24           131/12/012         13/12/012         14/02/24         13/12/012         14/02/24           131/12/012         14/02/24         13/12/012         14/02/24         14/02/24           131/12/012         14/02/24         14/02/24         14/02/24         14/02/24           131/12/012         14/02/24         13/02/21         14/02/24         14/02/24           131/12/012         14/02/24         13/02/21         14/02/24         14/02/24           131/12/012         14/02/24         14/02/24         14/02/24         14/02/24</td> <td>24/32/2032         250 0           40         08/02/2013         12/0           41         08/02/2013         12/0           42         08/02/2013         12/0           42         08/02/2013         12/0           45         16/02/2013         12/0           46         08/02/2013         12/0           47         08/02/2013         12/0           48         08/02/2013         12/0           49         08/02/2013         12/0           49         08/02/2013         12/0           49         18/02/2013         22/0</td> <td>3022013         14           94/2013         8         14           94/2013         14         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         18         14           94/2013         18         14           94/2013         18         14</td> <td>31/10/2012 CCM<br/>21/12/2012 CCM-</td> <td>400967 10/11/2012</td> <td>2 PMC-009 3</td> <td></td> <td>16/01/2013 CCM-01 9</td> <td>91 1901 2013 PMC-</td> <td></td> <td></td> <td></td> <td>Code 2<br/>Rev1 with code 3<br/>Once accepted will be replicated and seat<br/>availing respond to rev 1<br/>Once accepted will be replicated and seat<br/>Once accepted will be replicated and seat<br/>Once accepted will be replicated and seat<br/>availing respond to rev 1</td>  | 301         301/17/012         301/17/012         14/02/24           131/12/012         14/02/24         13/12/012         14/02/24           131/12/012         13/12/012         14/02/24         13/12/012         14/02/24           131/12/012         14/02/24         13/12/012         14/02/24         14/02/24           131/12/012         14/02/24         14/02/24         14/02/24         14/02/24           131/12/012         14/02/24         13/02/21         14/02/24         14/02/24           131/12/012         14/02/24         13/02/21         14/02/24         14/02/24           131/12/012         14/02/24         14/02/24         14/02/24         14/02/24  
  | 24/32/2032         250 0           40         08/02/2013         12/0           41         08/02/2013         12/0           42         08/02/2013         12/0           42         08/02/2013         12/0           45         16/02/2013         12/0           46         08/02/2013         12/0           47         08/02/2013         12/0           48         08/02/2013         12/0           49         08/02/2013         12/0           49         08/02/2013         12/0           49         18/02/2013         22/0  
   | 3022013         14           94/2013         8         14           94/2013         14         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         8         14           94/2013         18         14           94/2013         18         14           94/2013         18         14  
  | 31/10/2012 CCM<br>21/12/2012 CCM-  | 400967 10/11/2012   
  | 2 PMC-009 3                    |   | 16/01/2013 CCM-01 9  | 91 1901 2013 PMC-  |  |   |   | Code 2<br>Rev1 with code 3<br>Once accepted will be replicated and seat<br>availing respond to rev 1<br>Once accepted will be replicated and seat<br>Once accepted will be replicated and seat<br>Once accepted will be replicated and seat<br>availing respond to rev 1   
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| C435-BINC-C4-TTP-M123-50006         C12.005           C435-BINC-C4-TTP-M123-50007         C12.005           C435-BINC-C4-TTP-M123-50000         C12.005           C435-BINC-C4-TTP-M123-50000         C12.005           C435-BINC-C4-TTP-M123-50001         C12.005           C435-BINC-C4-TTP-M123-50001         C12.005           C435-BINC-C4-TTP-M123-50001         C12.005  
  | TWE Enlargement - Sprayed Construct Production Teeting<br>TWE Enlargement - Downstoring and Depresentations<br>TWE Enlargement - Pays Ach Installation (when app Inabl<br>P.1. Enlargement - Sprayed Concrete Production Teeting<br>P.1. Enlargement - Sprayed Concrete Production Teeting<br>P.1. Enlargement - Pay Ach Installation (when explicible)<br>P.1. Enlargement - Pay Ach Installation (when explicible)  | ITP         ITP <td>Image: Section 2017 (2013)         Section 2017 (2013</td> <td>1         24/13/2032         260           460         08/02/2031         12/0           0         08/02/2031         12/0           1         65         08/02/2031         12/0           45         08/02/2031         12/0         08/02/2031         12/0           46         08/02/2031         12/0         08/02/2031         12/0           46         18/02/2031         12/0         12/0         22/0           4         18/02/2031         22/0         12/0         22/0           4         18/02/2031         22/0         12/0         22/0         12/0           4         18/02/2031         23/0         18/02/2031         22/0         12/0         <t< td=""><td>3022013         14           04/2013         8         14           04/2013         14         14           04/2013         8         14           04/2013         8         14           04/2013         18         14           04/2013         18         14           04/2013         18         14           04/2013         18         14</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013</td><td>400967 10/11/2012</td><td>2 PMC-009 3</td><td></td><td>16/01/2013 CCM-01 9</td><td>91 1901 2013 PMC-</td><td></td><td></td><td></td><td>Code 2<br/>Rev1 with code 3<br/>Once accepted will be replicated and sent<br/>availing respond to rev 1<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent<br/>availing respond to rev 1<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent</td></t<></td> | Image: Section 2017 (2013)         Section 2017 (2013   
  | 1         24/13/2032         260           460         08/02/2031         12/0           0         08/02/2031         12/0           1         65         08/02/2031         12/0           45         08/02/2031         12/0         08/02/2031         12/0           46         08/02/2031         12/0         08/02/2031         12/0           46         18/02/2031         12/0         12/0         22/0           4         18/02/2031         22/0         12/0         22/0           4         18/02/2031         22/0         12/0         22/0         12/0           4         18/02/2031         23/0         18/02/2031         22/0         12/0 <t< td=""><td>3022013         14           04/2013         8         14           04/2013         14         14           04/2013         8         14           04/2013         8         14           04/2013         18         14           04/2013         18         14           04/2013         18         14           04/2013         18         14</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013</td><td>400967 10/11/2012</td><td>2 PMC-009 3</td><td></td><td>16/01/2013 CCM-01 9</td><td>91 1901 2013 PMC-</td><td></td><td></td><td></td><td>Code 2<br/>Rev1 with code 3<br/>Once accepted will be replicated and sent<br/>availing respond to rev 1<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent<br/>availing respond to rev 1<br/>Once accepted will be replicated and sent<br/>Once accepted will be replicated and sent</td></t<>   
   | 3022013         14           04/2013         8         14           04/2013         14         14           04/2013         8         14           04/2013         8         14           04/2013         18         14           04/2013         18         14           04/2013         18         14           04/2013         18         14   
  | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    |   | 16/01/2013 CCM-01 9  | 91 1901 2013 PMC-          
   |  |   |   | Code 2<br>Rev1 with code 3<br>Once accepted will be replicated and sent<br>availing respond to rev 1<br>Once accepted will be replicated and sent<br>Once accepted will be replicated and sent<br>Once accepted will be replicated and sent<br>availing respond to rev 1<br>Once accepted will be replicated and sent<br>Once accepted will be replicated and sent   |  |  |  | | | | | | | | | |
  |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |  
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| 433-8/W.C-4-177-M123-60006         612.005           C433-8/W.C-4-17-M123-60007         612.005           C433-8/W.C-4-17-M123-60007         612.005           C433-8/W.C-4-17-M123-60007         612.005           C433-8/W.C-4-17-M123-60007         612.005           C433-8/W.C-4-17-M123-60001         612.005           C433-8/W.C-4-17-M123-60011         612.005           C433-8/W.C-4-17-M123-60012         612.005           C433-8/W.C-4-17-M123-60012         612.005           C433-8/W.C-4-17-M123-60012         612.005           C433-8/W.C-4-17-M123-60012         612.005   
  | FWE Enlargement - Sprayed Concrete Production Teeting<br>FWE Enlargement - Developing and Depresentiation<br>FWE Enlargement - Pipe Arch Instillation (when app loab)<br>FLI Enlargement - Derovation and Support<br>FLI Enlargement - Developing of Depresentation<br>FLI Enlargement - Pipe Arch Installation (when applicable)<br>CFI Enlargement - Pipe Arch Installation (when applicable)<br>CFI Enlargement - Pipe Arch Installation (when applicable)   | IT         V         Image: Constraint of the second  | Image: 2007 17/2012         3001200           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         14/02/20           1017/2012         20/02/20           1017/2012         20/02/20           1017/2012         20/02/20           1017/2012         20/02/20           1017/2012         20/02/20   
   | 1         24/12/2012         260           40         09/02/2013         12/0           40         09/02/2013         12/0           40         09/02/2013         12/0           45         09/02/2013         12/0           46         09/02/2013         12/0           45         09/02/2013         12/0           45         09/02/2013         22/0           4         19/02/2013         22/0           4         5         19/02/2013         22/0           4         5         19/02/2013         22/0           4         5         19/02/2013         22/0           55         19/02/2013         22/0         22/0           45         19/02/2013         22/0         22/0   
  | 3022013         34           04/2013         8         14           04/2013         34         34           04/2013         8         14           04/2013         8         14           04/2013         14         3           04/2013         14         34           04/2013         18         14           04/2013         18         14           04/2013         18         14   
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3   
                |   | 1601/2013 CCM01 5  | 91 1901 2013 PMC-  |  |   |   | Code 2<br>Rev1 with code 3<br>Once a copyled will be replicated and sent<br>swalling respond to rev 1<br>Once a copyled will be replicated and sent<br>Once a copyled will be replicated and sent<br>Once a copyled will be replicated and sent<br>awailing respond to rev 1<br>Once a copyled will be replicated and sent   |  | | | | | | | |
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| C435-B/HC C4-TTP-M123-40004         C12.005           C435-B/HC C4-TTP-M123-40004         C12.005           C435-B/HC C4-TTP-M123-60004         C12.005           C435-B/HC C4-TTP-M123-60004         C12.005           C435-B/HC C4-TTP-M123-60010         C12.005           C435-B/HC C4-TTP-M123-60012         C12.005           C435-B/HC C4-TTP-M123-60012         C12.005           C435-B/HC C4-TTP-M123-60013         C12.005  
  | TWE Enlargement - Sprayed Concrete Production Teeting<br>TWE Enlargement - Deventoring and Depresentations<br>TWE Enlargement - Paye Arch Installation (when app Inabl<br>P.1. Enlargement - Encavation and Support<br>P.1. Enlargement - Deventoring and Depresentation<br>P.1. Enlargement - Paye Arch Installation (when applicable)<br>CP1 Enlargement - Paye Arch Installation (when applicable)<br>CP1 Enlargement - Payer Arch Installation (when applicable)<br>CP1 Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Deventoring and Depresentation   | IT         V         I         I   | Image: Section 2017 (2013)         Section 2017 (201  
  | 1         24/13/2033         260           1         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         19/02/2013         12/0           1         19/02/2013         22/0           1         19/02/2013         22/0           1         19/02/2013         22/0           1         19/02/2013         22/0           1         19/02/2013         22/0           1         19/02/2013         12/0           1         12/02/2013         12/0           1         12/02/2013         12/0           1         12/02/2013         14/02/2013           1         15/07/2013         14/02/2013   
   | 2022013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         18           04/2013         18           04/2013         18           04/2013         18           04/2013         18           04/2013         18           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           04/2013         14           06/2013         14  
  | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    | | | | | | | | | | | | |
   | 16012013 CCM01 5   | 91 1301 2013 PMC-  |  |   |   | Code 2 Rev1 with code 3 Once accepted will be replicated and sent awaiting response do rev 1 Once accepted will be replicated and sent   |  |  
   |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |  
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| L433-BIR-C+TT-M123-36004         O12.005           C433-BIR-C+TT-M123-36000         C12.005           C433-BIR-C+TT-M123-36000         C12.005           C433-BIR-C+TT-M123-36001         C12.005           C433-BIR-C+TT-M123-36001         C12.005           C433-BIR-C+TT-M123-36012         C12.005           C433-BIR-C+TT-M123-36012         C12.005           C433-BIR-C+TT-M123-36012         C12.005           C433-BIR-C+TT-M123-36013         C12.005           C433-BIR-C+TT-M123-36013         C12.005           C433-BIR-C+TT-M123-36013         C12.005           C433-BIR-C+TT-M123-36013         C12.005  
  | TWE Enlargement - Sprayed Concrete Production Testing<br>FWE Enlargement - Developing and Depresentration<br>TWE Enlargement - Pays Ach Insullation (when app Inshi<br>FLI Enlargement - Encavation and Support<br>FLI Enlargement - Developing - Depresentation<br>FLI Enlargement - Pays Ach Insullation (when applicable)<br>CP1 Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Developing and Support<br>CP1 Enlargement - Developing and Support  | ITP     ITP     ITP     ITP  | Image: Section 2016 (Section 2016)  
  | 0         0.4(13)/031         260           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           0.6(072)/031         12/0           1.6(072)/031         22/0           1.6(072)/031         22/0           1.6(072)/031         22/0           1.6(072)/031         22/0           1.6(072)/031         22/0           1.6(072)/031         12/0           1.6(072)/031         12/0           1.6(072)/031         16/0           1.6(072)/031         17/0           1.6(072)/031         16/0  
   | B222013         24           94,72013         8         14           94/72013         8         14           94/72013         8         14           94/72013         8         14           94/72013         8         14           94/72013         18         14           94/72013         18         14           94/72013         18         14           94/72013         18         14           96/72013         18         14           96/72013         13         14           96/72013         13         14           96/72013         41         14           96/72013         43         14           96/72013         43         14           96/72013         43         14   
  | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    | | | | | | | | | | | | |
   | 1601/2013 CCM01 5  | 91 15012013 PAC-   |  |   |   | Code 2 Revt with code 3 Ouces accepted with its replicated and sent awaiting respond to rev 1 Ouces accepted with its replicated and sent Ouces accepted with its replicated and sent Ouces accepted with its replicated and sent awaiting respond to rev 1 Ouces accepted with its replicated and sent  |  |  
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  |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| L433-8/IK-C4-IT7-M123-60008         612.005           C433-8/IK-C4-IT7-M123-6000         C12.005           C433-8/IK-C4-IT7-M123-6000         C12.005           C433-8/IK-C4-IT7-M123-6000         C12.005           C433-8/IK-C4-IT7-M123-6001         C12.005  
   | FTW2 Enlargement - Sprayed Concrete Production Teeting,     FTW2 Enlargement - Pownstering and Depresentration     FTW2 Enlargement - Pipe Arch Installation (when app leabl     FL1 Enlargement - Provention and Support     FL1 Enlargement - Provention and Support     FL1 Enlargement - Pipe Arch Installation (when applicable)     CP1 Enlargement - Pipe Arch Installation (when applicable)     FTW1 - Envertion and Support     FTW1 - Envertion and Support     FTW1 - Envertion and Support     FTW1 - Envertion Fordaction Teeting     FTW1 - Envertion Fordaction Teeting     FTW1 - Envertion and Support     FTW1 - Envertion and Support     FTW1 - Envertion Fordaction Teeting     FTW1 - Envertion Fordaction Fordaction     FTW1 - Envertion Fordaction     FTW1 - Envertion Fordaction     FTW1 | ITT     V     ITT  | Image: Section 2017 (2013)         Section 2017 (2013)         Section 2017 (2013)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)           Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 2017 (2014)         Image: Section 201   
   | 1         24/13/2013         250           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         16/07/2013         12/0           1         16/07/2013         22/0           1         16/07/2013         22/0           1         16/07/2013         22/0           1         16/07/2013         22/0           1         16/07/2013         12/0           1         15/07/2013         12/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0           1         15/07/2013         10/0  
  | 922013         54           94,7013         8         14           94,7013         8         34           94,7013         8         34           94,7013         8         34           94,7013         8         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           96,7013         14         14           96,7013         14         14           96,7013         43         14           97         14         14           7         14         7           7         14         7         14   
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    | | | | | | | | | | | | | |
  | 15012013 GCM01 9   | 91 15012013 PAC-   |  |   |   | Cole 2 Fet With cole 3 Once accepted will be replicated and seat awaiting respond to rev 1 Once accepted will be replicated and seat Once accepted will be r   |  |  |  |   
   |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   
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| C433-BIK-C4-TTP-M123-50006         C12.005           C433-BIK-C4-TTP-M123-50007         C12.005           C433-BIK-C4-TTP-M123-50007         C12.005           C433-BIK-C4-TTP-M123-50010         C12.005           C433-BIK-C4-TTP-M123-50010         C12.005           C433-BIK-C4-TTP-M123-50010         C12.005           C433-BIK-C4-TTP-M123-50011         C12.005           C433-BIK-C4-TTP-M123-50012         C12.005           C433-BIK-C4-TTP-M123-50013         C12.005           C433-BIK-C4-TTP-M123-50014         C12.005           C434         C444           C444         C   
   | FTW2 Enlargement - Sprayed Concrete Production Testing<br>FTW2 Enlargement - Developing and Depresentiation<br>FTW2 Enlargement - Pay Arch Installation (when say leadh<br>FLI Enlargement - Pay arch Installation (when say leadh<br>FLI Enlargement - Pay arch (so and Support<br>FLI Enlargement - Pay Arch Installation (when say Enlargement<br>FLI Enlargement - Pay Arch Installation (when say Enlargement<br>FLI Enlargement - Pay Arch Installation (when say Enlargement<br>FLI Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Sprayed Concrete Production Testing<br>CP1 Enlargement - Pay Arch Installation (when say Enlargh)<br>FTW1 - Sprayed Concrete Production Testing<br>FTW1 - Sprayed Co   | IT     V     I   | Image: Section 2016 (Section 2016)   
   | 24/13/2013         250           36         09/02/2013         12/0           46         09/02/2013         12/0           47         09/02/2013         12/0           48         09/02/2013         12/0           45         09/02/2013         12/0           46         10/02/2013         12/0           47         10/02/2013         22/0           48         10/02/2013         22/0           49         19/02/2013         22/0           49         19/02/2013         22/0           49         19/02/2013         24/0           40         19/02/2013         12/0           41         19/02/2013         14/0           42         19/02/2013         14/0           43         19/02/2013         14/0           44         19/09/2013         14/0           45         19/09/2013         14/0           46         19/09/2013         14/0           47         19/09/2013         14/0           48         48         48           48         48         48           49         49         49           40         19/09 </td <td>9222013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           97         14           7         14</td> <td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013</td> <td>400967 10/11/2012</td> <td>2 PMC-009 3</td> <td></td> <td>1501/2013 CCM-01 9</td> <td>91 15012013 PAC-</td> <td></td> <td></td> <td></td> <td>Code 2 Rev1 with code 3 Once accepted with the replicated and seat availing respond to rev 1 Once accepted with the replicated and seat Once accepted with the replicated and seat</td>  
  | 9222013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           94,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           96,72013         14           97         14           7         14  
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    |   | 1501/2013 CCM-01 9   | 91 15012013 PAC-  
  |  |   |   | Code 2 Rev1 with code 3 Once accepted with the replicated and seat availing respond to rev 1 Once accepted with the replicated and seat   |  |  |  |   |   | | | | | | | | | | | | |
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| c433-8/RC<-4/TP-4123-50006   
  | FTW2 Enlargement - Sprayed Concrete Production Teeting     FTW2 Enlargement - Deventoring and Depresentration     TTW2 Enlargement - Pipe Arch     Installation (when app loab)     FLI Enlargement - Deventoring     FLI Enlargement - Pipe Arch     Installation (when applicable)     CP1 Enlargement - Pipe Arch     Installation (when applicable)     CP1 Enlargement - Deventoring and Depresentiation     FLI Enlargement - Deventoring     CP1 Enl | IT     V     I   | Image: Section 2014 (2013)         Section 2014 (2013)         Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)         Image: Section 2014 (2014)           Image: Section 2014 (2014) (20   
  | 1         24/13/2013         26/0           1         09/07/2013         12/0           2         09/07/2013         12/0           3         09/07/2013         12/0           4         09/07/2013         12/0           5         09/07/2013         12/0           3         16/07/2013         12/0           4         19/07/2013         12/0           3         19/07/2013         12/0           3         19/07/2013         12/0           3         19/07/2013         12/0           3         19/07/2013         12/0           4         15/07/2013         13/0           4         15/07/2013         17/0           5         19/07/2013         17/0           1         14/07/2013         17/0           1         15/07/2013         17/0           1         14/07/2013         17/0           1         16/07/2013         17/0           1         16/07/2013         17/0           1         16/07/2013         17/0           1         16/07/2013         17/0           1         16/07/2013         17/0 <td< td=""><td>922013         54           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         18         14           94,7031         18         14           94,7031         13         14           96,7031         41         14           96,7031         44         14           7         14         7           7         14         7         14           7         14         7           9222013         -32         14         14</td><td>31/10/2012 COM<br/>21/12/2012 COM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013</td><td>400967 10/11/2012</td><td>2 PMC-009 3</td><td></td><td>15012013 CCM01 9</td><td>91 1501 2013 PAC-<br/></td><td></td><td></td><td></td><td>Code 2 Pert with code 3 Code a scoppied with the replicated and seet awaiting respond to re 1 Once accepted with the replicated and seet Once accepted wit</td></td<>  
   | 922013         54           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         18         14           94,7031         18         14           94,7031         13         14           96,7031         41         14           96,7031         44         14           7         14         7           7         14         7         14           7         14         7           9222013         -32         14         14  
  | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    |   | 15012013 CCM01 9   | 91 1501 2013 PAC-<br>                  
   |  |   |   | Code 2 Pert with code 3 Code a scoppied with the replicated and seet awaiting respond to re 1 Once accepted with the replicated and seet Once accepted wit   |  |  |  |   |   | | | | | | | |
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 |                     |                         |  |                   |   |  |  |  |  |
| 433-8/RC<4-177-4123-36006  
  | FTW2 Enlargement - Sprayed Concrete Production Teeting,     FTW2 Enlargement - Deventoring and Depresentings     FTW2 Enlargement - Pipe Arch Installation (when app leabl     FLI Enlargement - Provention and Support     FLI - Support Concrete Production Testing     FLI - Support - Provention and Support     FLI - Support Concrete Production     FLI - Support     FLI - Sup | IT     V     I     I   | Image: Section 2016 (Section 2016)   
   | 1         24/13/2013         250           1         09/07/2013         12/0           2         09/07/2013         12/0           3         09/07/2013         12/0           4         09/07/2013         12/0           5         09/07/2013         12/0           5         09/07/2013         12/0           1         10/07/2013         12/0           5         10/07/2013         22/0           1         10/07/2013         22/0           1         10/07/2013         22/0           1         11/07/2013         12/0           2         10/07/2013         12/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         11/07/2013         10/0           1         12/07/2013         10/0           1         12/07/2013         10/0           1         12/07/07/01         10/0 <td< td=""><td>922013         54           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         18         14           94,7031         18         14           94,7031         18         14           94,7031         18         14           94,7031         14         14           96,7031         14         14           96,7033         41         14           7         14         14           7         14         7           7         14         7         14           7         14         7         14           7         14         7         14           7         14         7         14           7         14         14         14           7         14         14         14           7         14         14         14           7         14         14         14           7         14&lt;</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013</td><td>400967 10/11/2012</td><td>2 PMC-009 3</td><td></td><td>1601/2013 OCM-01 9</td><td>51 15012013 PAC-<br/>51 1501201000000000000000000000000000000</td><td></td><td></td><td></td><td>Code 2           Rev1 with code 3           Once accepted with the replicated and seat           Availing respond to rev 1           Once accepted with the replicated and seat           Once accepted withe replicated and seat</td></td<>   
   | 922013         54           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         8         14           94,7031         18         14           94,7031         18         14           94,7031         18         14           94,7031         18         14           94,7031         14         14           96,7031         14         14           96,7033         41         14           7         14         14           7         14         7           7         14         7         14           7         14         7         14           7         14         7         14           7         14         7         14           7         14         14         14           7         14         14         14           7         14         14         14           7         14         14         14           7         14<   
  | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    |   | 1601/2013 OCM-01 9   | 51 15012013 PAC-<br>51 1501201000000000000000000000000000000   |  |   |   | Code 2           Rev1 with code 3           Once accepted with the replicated and seat           Availing respond to rev 1           Once accepted with the replicated and seat           Once accepted withe replicated and seat  
  |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |   
              |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| 433-8/RC<4-177-4123-36006  
  | FTW2 Enlargement - Sprayed Concrete Production Testing     FTW2 Enlargement - Deventoring and Depresentings     FTW2 Enlargement - Pipe Arch Installation (when app leadh     FLI Enlargement - Pipe Arch Installation (when app leadh)     FLI Enlargement - Pipe Arch Installation (when app leadh)     CP1 Enlargement - Pipe Arch Installation (when applicable)     TFW1 - Sprayed Concrete Production Testing     CP1 Enlargement - Pipe Arch Installation (when applicable)     TFW1 - Sprayed Concrete Production Testing     CP1 Enlargement - Pipe Arch Installation (when applicable)     TFW1 - Sprayed Concrete Production Testing     CP1 - Enlargement - Pipe Arch Installation (when applicable)     TFW1 - Sprayed Concrete Production Testing     CP1 - Enlargement - Pipe Arch Installation (when applicable)     TFW1 - Sprayed Concrete Production Testing     O - Concrete Delivery Explorement     O - Concrete Delivery Explorement     O - Morokal 32(dumper     O - Marchal 32(dumper     O - Mar | IT     IT     I     I       IT     I     I     I  | Image: Section 2016 (Section 2016)   
   | 1         24/13/2013         250           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         06/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         19/0           1         10/07/2013         19/0           1         10/07/2013         19/0           1         10/07/2013         19/0           1         10/07/2013         19/0           1         10/07/2013         19/0           1         10/07/2013         19/0  
  | 222013         54           94,7013         8         14           94,7013         8         34           94,7013         8         34           94,7013         8         34           94,7013         8         34           94,7013         18         34           94,7013         18         34           94,7013         18         34           94,7013         18         34           94,7013         18         34           96,7013         3         34           96,7013         43         34           97         14         7           7         14         7         14           7         14         7         14           7         14         32         14           922013         36         14           922013         36         14           922013         36         14           922013         36         14           922013         36         14           922013         36         14   
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 400967 10/11/2012  | 2 PMC-009 3                    |   | 1601/2013 OCM-01 9   
   | 51 15012013 PAC-<br>5012013 PAC-<br>5012014 PAC- |  |   |   | Code 2           Rev1 with code 3           Once accepted will be replicated and seat           awaiting respond to rev 1           Once accepted will be replicated and seat           0         B AR # D           B AR #  |  |  |  |   |   | | | | | | | | | | | |
   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   |   |  |                     |                         |  |                   |   
   |  |  |  |  |
| 433-87K-C+-177-M123-60006         012.005           643-87K-C+-177-M123-60007         012.005           643-87K-C+177-M123-60007         012.005           643-87K-C+177-M123-60007         012.005           643-87K-C+177-M123-60010         012.005           643-87K-C+177-M123-60101         012.005           612.002         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0           612.003         0 </td <td>FTW2 Ediargement - Sprayed Concrete Production Testing     FTW2 Ebiargement - Developing and Depresentation     FTW2 Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when saylikable)     CP1 Ebiargement - Sprayed Concrete Production Testing     CP1 Ebiargement - Sprayed Concrete Induction Testing     CP1 Ebiarged Concrete Induction Testing     CP3 Ebiargement - Sprayed Concrete Induction     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction     Concrete Declerey Edualment     O Montel Stipps     L Sing Edualment     Concrete Concret Conc     Concrete Concret Conc     Concrete Concrete Con     Concrete Concrete Con</td> <td>IT     V     I     I       IT     V     I     I</td> <td>Bit         Bit         <thbit< th=""> <thbit< th=""> <thbit< th=""></thbit<></thbit<></thbit<></td> <td>0         0</td> <td>9222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           96,72013         41         34           96,72013         41         34           97,7013         14         34           97,7013         14         34           97,7013         44         34           97,7013         44         34           97,7013         45         14           97,7013         14         34           97,7013         45         14           97,7013         35         14           92,72013         35         14           92,72013         35         14           92,72013         35         14           92,72013</td> <td>31/10/2012 CCM<br/>31/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013</td> <td>40967 10/11/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>19/01/2013</td> <td>2 PMC-009 3<br/>2 PMC-01516<br/></td> <td></td> <td>1601/2013 OCM01 9</td> <td>51 15012013 PMC-<br/></td> <td></td> <td></td> <td></td> <td>Code 2         Revt with code 3         Once accepted will be replicated and seat         swalling respond to rev 1         Once accepted will be replicated and seat         0       A R #0</td> | FTW2 Ediargement - Sprayed Concrete Production Testing     FTW2 Ebiargement - Developing and Depresentation     FTW2 Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when say loab)     FLI Ebiargement - Park Arch Installation (when saylikable)     CP1 Ebiargement - Sprayed Concrete Production Testing     CP1 Ebiargement - Sprayed Concrete Induction Testing     CP1 Ebiarged Concrete Induction Testing     CP3 Ebiargement - Sprayed Concrete Induction     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction Testing     CP3 Ebiarged Concrete Induction     Concrete Declerey Edualment     O Montel Stipps     L Sing Edualment     Concrete Concret Conc     Concrete Concret Conc     Concrete Concrete Con     Concrete Concrete Con   | IT     V     I     I  
  | Bit         Bit <thbit< th=""> <thbit< th=""> <thbit< th=""></thbit<></thbit<></thbit<>  | 0         0 
       0     
  | 9222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           96,72013         41         34           96,72013         41         34           97,7013         14         34           97,7013         14         34           97,7013         44         34           97,7013         44         34           97,7013         45         14           97,7013         14         34           97,7013         45         14           97,7013         35         14           92,72013         35         14           92,72013         35         14           92,72013         35         14           92,72013   
   | 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013   | 40967 10/11/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013<br>19/01/2013   | 2 PMC-009 3<br>2 PMC-01516<br> |   | 1601/2013 OCM01 9  | 51 15012013 PMC-<br>  
  |  |   |   | Code 2         Revt with code 3         Once accepted will be replicated and seat         swalling respond to rev 1         Once accepted will be replicated and seat         0       A R #0   |  |  |  |   |   |   |   |                     |                         |   
  |                          |  |  |  |  |  |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  
   |
| 2433-8/RC-4-117-M123-4600-6         012.005           2433-8/RC-4-117-M123-4600-7         012.005           2435-8/RC-4-117-M123-4600-7         012.005           2435-8/RC-4-117-M123-4600-7         012.005           2435-8/RC-4-117-M123-46010         012.005           2435-8/RC-4-117-M123-46012         012.005           2435-8/RC-4-117-M123-46012         012.005           2435-8/RC-4-117-M123-46013         012.005           2435-8/RC-4-117-M123-46013         012.005           2435-8/RC-4-117-M123-46015         012.005           2435-8/RC-117-M123-46015         012.005           2435-8/RC-117-M123-10015         012.005           2435-8/RC-117-M123-10015         012.005           2435-8/RC-117-0112-10015         012.002           2435-8/RC-117-0112-10015         012.002           2435-8/RC-118-2/RC-118-2/RC-118-2/RC-18-2/RC-18-2/RC-18-2/RC-18-2/RC-18-2/RC-18-2/RC-18-2/RC-   
   | FW2 Enlargement - Sprayed Concrete Production Teeting,     FW2 Enlargement - Deventoring and Depresentings     FW2 Enlargement - Pipe Arch Installation (when app leab)     FLI Enlargement - Prove Arch Installation (when applicable)     FLI Enlargement - Pipe Arch Installation (when applicable)     CP1 Enlargement - Pipe Arch Installation (when applicable)     FTW1 - Tepreved Concrete Production Teeting     CP1 - Develoring and Depresentation     C - Bachting and Maing Equipment     O Monitol 32 duringer     Muck Skips     Litting     Litting Studyment     Fobe co CPE 110000 Crawler Crane     Crane 100 T     Monito Pipe Concellection Crane     Crane 100 T     Maccoston Exploration Crane     Crane 100 T     Maccoston Exploration Crane     Crane 100 T     Maccoston Exploration Crane     Crane     Concellection     Crane     Crane     Concellection     Crane     | IT     V     I     I   | Image: Section 2016 (Section 2016)  
  | 44/13/2013         56           69/07/2013         12/0           1         69/07/2013         12/0           1         69/07/2013         12/0           1         69/07/2013         12/0           1         69/07/2013         12/0           1         69/07/2013         12/0           1         16/07/2013         12/0           1         16/07/2013         22/0           1         16/07/2013         22/0           1         16/07/2013         22/0           2         18/07/2013         22/0           2         18/07/2013         12/0           2         18/07/2013         12/0           3         15/07/2013         10/0           1         14/07/2013         10/0           1         14/07/2013         10/0           1         14/07/2013         10/0           2         2         2         2           3         2         2         2           4         2         2         2           4         2         2         2           4         2         2         2           4 <td>9222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           96,72013         14         14           96,72013         14         14           97         14         14           97         14         14           97         14         14           97         14         14           97         14         14           922013         38         14           922013         38         14           922013         36         14           922013         45         14           922013         45         14           922013         45         14      <tr tt=""> <tr tt="">          922013         45<!--</td--><td>31/10/2012 CCM<br/>31/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>400967 10/11/2012</td><td>2 PMC-009 3<br/>2 PMC-01516<br/></td><td></td><td>1601/2013 OCM01 9</td><td>51 15012013 PAC-<br/></td><td></td><td></td><td></td><td>Code 2         Rev1 with code 3         Once accepted with or rey1         Once accepted with or rey1cated and seat         P       P         P       P         P       P         B       AR BD         B       AR BD         B       &lt;</td></tr><tr><td>Lass-Bitty-C+-ITP-M123-50006         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50011         012.005           Cata-Bitty-C+-ITP-M123-50012         012.005           Cata-Bitty-C+-ITP-M123-50013         012.005           Cata-Bitty-C+-ITP-M123-50014         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50016         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.000           Cata-Bitty-C</td><td>FW2 Eddagement - Sprayed Concrete Production Testing     FW2 Eddagement - Spectra and Support     FW2 Eddagement - Park Article and Support     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Vist - Substrate and Depresentation     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     Concrete Delivery Englement     Outstate Institution     Vist - Development     Outstate Instheneage</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>1         28/11/2012         306/120           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         27/12/2012         28/02/24           1         27/12/2012         28/02/24           1         10/07/2013         28/02/24           1         10/07/2013         14/02/21           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         01/07/2013         14/02/24           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/21         20/12/201           1</td><td>44/32/33.3         256           66         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         16/02/2013         12/0           1         16/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         12/0           1         10/02/2013         12/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         24/02/2013         25.0           26         24/12/2012         26.0           26         &lt;</td><td>222013         54           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         18         14           96,72013         13         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         7         14           7         14         22,2713         285         14           92,22013         285         14         14           92,22013         285         14         14           92,22013         45         14         14           92,22013         45         14         14   
       92,22013</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>00000000000000000000000000000000000</td><td>40967 10/1/2013<br/></td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1601/2013 OCM01 9</td><td>1         1501 2013         PAG-           2         -         -           2         -         -           2         -         -           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         -           10         -         -           10         -         -           11         -         -           12         -         -           13         -         -           14         -         -           15         -         -           16         -         -           17         -         -           16         -         -           17         -         -           18         -         -           19         -         -           19         -         -           10         -</td><td></td><td></td><td></td><td>Code 2       Rev 1 with code 3       Once accepted with or replicated and sent       awaiting respond to rev 1       Once accepted with preplicated and sent       B AR #D       B AR #D</td></tr><tr><td>433-8/RC&lt;4-117-4123-6000</td>         612.005           433-8/RC&lt;4-117-4123-6000</tr></tr></td> 612.005           433-8/RC<4+17-4123-6000 | 9222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           96,72013         14         14           96,72013         14         14           97         14         14           97         14         14           97         14         14           97         14         14           97         14         14           922013         38         14           922013         38         14           922013         36         14           922013         45         14           922013         45         14           922013         45         14 <tr tt=""> <tr tt="">          922013         45<!--</td--><td>31/10/2012 CCM<br/>31/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>400967 10/11/2012</td><td>2 PMC-009 3<br/>2 PMC-01516<br/></td><td></td><td>1601/2013 OCM01 9</td><td>51 15012013 PAC-<br/></td><td></td><td></td><td></td><td>Code 2         Rev1 with code 3         Once accepted with or rey1         Once accepted with or rey1cated and seat         P       P         P       P         P       P         B       AR BD         B       AR BD         B       &lt;</td></tr><tr><td>Lass-Bitty-C+-ITP-M123-50006         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50011         012.005           Cata-Bitty-C+-ITP-M123-50012         012.005           Cata-Bitty-C+-ITP-M123-50013         012.005           Cata-Bitty-C+-ITP-M123-50014         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50016         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.000           Cata-Bitty-C</td><td>FW2 Eddagement - Sprayed Concrete Production Testing     FW2 Eddagement - Spectra and Support     FW2 Eddagement - Park Article and Support     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Vist - Substrate and Depresentation     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     Concrete Delivery Englement     Outstate Institution     Vist - Development     Outstate Instheneage</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>1         28/11/2012         306/120           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         27/12/2012         28/02/24           1         27/12/2012         28/02/24           1         10/07/2013         28/02/24           1         10/07/2013         14/02/21           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         01/07/2013         14/02/24           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/21         20/12/201           1</td><td>44/32/33.3         256           66         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         16/02/2013         12/0           1         16/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         12/0           1         10/02/2013         12/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         24/02/2013         25.0           26         24/12/2012         26.0           26         &lt;</td><td>222013         54           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         18         14           96,72013         13         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         7         14           7         14         22,2713         285         14           92,22013         285         14         14           92,22013         285         14         14           92,22013         45         14         14           92,22013         45         14         14           92,22013</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>00000000000000000000000000000000000</td><td>40967 10/1/2013<br/></td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1601/2013 OCM01 9</td><td>1         1501 2013         PAG-           2         -         -           2         -         -           2         -         -           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         -           10         -         -           10         -         -           11         -         -           12         -         -           13         -         -           14         -         -           15         -         -           16         -         -           17         -         -           16         -         -           17         -         -           18         -         -           19         -         -           19         -         -           10         -</td><td></td><td></td><td></td><td>Code 2       Rev 1 with code 3       Once accepted with or replicated and sent       awaiting respond
to rev 1       Once accepted with preplicated and sent       B AR #D       B AR #D</td></tr><tr><td>433-8/RC&lt;4-117-4123-6000</td>         612.005           433-8/RC&lt;4-117-4123-6000</tr></tr> | 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 400967 10/11/2012  | 2 PMC-009 3<br>2 PMC-01516<br> |   | 1601/2013 OCM01 9  | 51 15012013 PAC-<br>   |  |   |   | Code 2         Rev1 with code 3         Once accepted with or rey1         Once accepted with or rey1cated and seat         P       P         P       P         P       P         B       AR BD         B       AR BD         B       <   
  | Lass-Bitty-C+-ITP-M123-50006         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50011         012.005           Cata-Bitty-C+-ITP-M123-50012         012.005           Cata-Bitty-C+-ITP-M123-50013         012.005           Cata-Bitty-C+-ITP-M123-50014         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50016         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.000           Cata-Bitty-C | FW2 Eddagement - Sprayed Concrete Production Testing     FW2 Eddagement - Spectra and Support     FW2 Eddagement - Park Article and Support     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Vist - Substrate and Depresentation     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     Concrete Delivery Englement     Outstate Institution     Vist - Development     Outstate Instheneage | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 1         28/11/2012         306/120           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         27/12/2012         28/02/24           1         27/12/2012         28/02/24           1         10/07/2013         28/02/24           1         10/07/2013         14/02/21           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         01/07/2013         14/02/24           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/21         20/12/201           1 | 44/32/33.3         256           66         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         16/02/2013         12/0           1         16/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         12/0           1         10/02/2013         12/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         24/02/2013         25.0           26         24/12/2012         26.0           26         < | 222013         54           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         18         14           96,72013         13         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         7         14           7         14         22,2713         285         14           92,22013         285         14         14           92,22013         285         14         14           92,22013         45         14         14           92,22013         45         14         14           92,22013 | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000 | 40967 10/1/2013<br> | 2 PMC-009 3 2 PMC-01516 |  | 1601/2013 OCM01 9        | 1         1501 2013         PAG-           2         -         -           2         -         -           2         -         -           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         -           10         -         -           10         -         -           11         -         -           12         -         -           13         -         -           14         -         -           15         -         -           16         -         -           17         -         -           16         -         -           17         -         -           18         -         -           19         -         -           19         -         -           10         - |  |  |  | Code 2       Rev 1 with code 3       Once accepted with or replicated and sent       awaiting respond to rev 1       Once accepted with preplicated and sent       B AR #D       B AR #D | 433-8/RC<4-117-4123-6000 | FW2 Ediagenent-Sprayed Concrete Production Testing     FW2 Ediagenent-Developing and Depresentation     FW2 Ediagenent-Top-Architectures     FW2 Ediagenent-Top-Architectures     FU1 Ediagenent-Top-Architectures     FL Ediagenent-Developing     FL Ediagenent-Developing     FL Ediagenent-Developing     FL Ediagenent-Developing     FV2 Ediagenent-Developing     FV1 - Developing     FV2 - Sprayed Concrete Production Testing     FVV - Sprayed Concrete Production Testing     FVV - Sprayed Concrete Production     FVV - Developing Ediagnement     O Concrete Delivery Ediagnement     Monola 21dumper     Mack salos     Ling Equipment     Kobe co CKE 11000 Conver Crane     Kobe co CKE 1000 Conver Crane     Kobe co CKE 1000 Conver Crane     FOR - State Tunnel Excander     If TV - State Tunnel Excander     If TV - State Tunnel Excander     If TV Ediagnement Econol     Concrete Delivery Ediagnement     O Ediagnement     O Ediagnement     FVA - State Tunnel Excander     If TV - State Tunnel Excander     If TV Ediagnement     Concerve Delivery Ediagnement     O Ediagnement     O Ediagnement     FVA -
State     FVA - Stat | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 1         39/17/313         506/120           1         13/17/313         14/02/21           1         13/17/313         14/02/21           1         13/17/313         14/02/21           1         13/17/313         14/02/21           1         13/17/313         14/02/21           1         17/17/313         30/02/21           1         17/17/313         30/02/21           1         17/17/313         30/02/21           1         17/17/313         30/02/21           1         17/17/313         30/02/21           1         10/07/213         34/02/21           1         10/07/213         34/02/21           1         10/07/213         34/02/21           1         10/07/213         34/02/21           1         10/07/213         34/02/21           1         10/07/213         34/02/21           1         07/02/213         14/02/21           1         07/02/213         14/02/21           1         07/02/213         14/02/21           1         07/02/213         14/02/21           1         07/02/213         14/02/21           1         07/ | 1         24/13/2013         250           0         09/07/2013         12/0           1         09/07/2013         12/0           1         09/07/2013         12/0           1         09/07/2013         12/0           1         09/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         10/07/2013         12/0           1         11/07/2013         12/0           1         11/07/2013         12/0           1         14/07/2013         13/0           1         14/07/2013         14/0           1         14/07/2013         14/0           1         14/07/2013         14/0           1         14/07/2013         14/0           1         14/07/2013         14/0           1         14/07/2012         260           2         2         2         2 | B222013         S         S4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         13         14           95,72013         41         14           97         14         14           97         14         14           97         14         14           97         14         14           97         14         14           92,2013         -33         14           92,2013         -34         14           92,2013         -35         14           92,2013         -36         14           92,2013         -35         14           92,2013         -35         14           92,2013 | 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40967 10/1/2013<br> | 2 PMC-009 3 2 PMC-01516 |  | 1501/2013 OCM01 9 | 1         1501 2013         PMC-           1         1501 2013         PMC-           1         1         1           1         1 |  |  |  | Cole 2 Ret Vath cole 3 Gene accepted will be replicated and sent availing respond to rev 1 Gene accepted will be replicated and sent Gene accepted will be r |
| 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | 400967 10/11/2012   | 2 PMC-009 3<br>2 PMC-01516<br>   |   
  | 1601/2013 OCM01 9  
   | 51 15012013 PAC-<br>  
  |  |   
  |                                | Code 2         Rev1 with code 3         Once accepted with or rey1         Once accepted with or rey1cated and seat         P       P         P       P         P       P         B       AR BD         B       AR BD         B       < | Lass-Bitty-C+-ITP-M123-50006         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50011         012.005           Cata-Bitty-C+-ITP-M123-50012         012.005           Cata-Bitty-C+-ITP-M123-50013         012.005           Cata-Bitty-C+-ITP-M123-50014         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50016         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.000           Cata-Bitty-C | FW2 Eddagement - Sprayed Concrete Production Testing     FW2 Eddagement - Spectra and Support     FW2 Eddagement - Park Article and Support     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Vist - Substrate and Depresentation     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     Concrete Delivery Englement     Outstate Institution     Vist - Development     Outstate Instheneage   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 1         28/11/2012         306/120           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         27/12/2012         28/02/24           1         27/12/2012         28/02/24           1         10/07/2013         28/02/24           1         10/07/2013         14/02/21           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         01/07/2013         14/02/24           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/21         20/12/201           1 | 44/32/33.3         256           66         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         16/02/2013         12/0           1         16/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         12/0           1         10/02/2013         12/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         24/02/2013         25.0           26         24/12/2012         26.0           26         < | 222013         54           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         18         14           96,72013         13         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         7         14           7         14         22,2713         285         14           92,22013         285         14         14           92,22013         285         14         14           92,22013         45         14         14           92,22013         45         14         14           92,22013  | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000   
  | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516                                |   | 1601/2013 OCM01 9   | 1         1501 2013         PAG-           2         -         -           2         -         -           2         -         -           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         -           10         -         -           10         -         -           11         -         -           12         -         -           13         -         -           14         -         -           15         -         -           16         -         -           17         -         -           16         -         -           17         -         -           18         -         -           19         -         -           19         -         -           10         -  |   |                     |                         | Code 2       Rev 1 with code 3       Once accepted with or replicated and sent       awaiting respond to rev 1       Once accepted with preplicated and sent       B AR #D       B AR #D | 433-8/RC<4-117-4123-6000 |  |  |  |  |  |                          |  
  |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
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  |                                | Code 2         Rev1 with code 3         Once accepted with or rey1         Once accepted with or rey1cated and seat         P       P         P       P         P       P         B       AR BD         B       AR BD         B       < |  |  |  |   |   |  | | | | | | | | |
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| Lass-Bitty-C+-ITP-M123-50006         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50007         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50001         012.005           Cata-Bitty-C+-ITP-M123-50011         012.005           Cata-Bitty-C+-ITP-M123-50012         012.005           Cata-Bitty-C+-ITP-M123-50013         012.005           Cata-Bitty-C+-ITP-M123-50014         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50015         012.005           Cata-Bitty-C+-ITP-M123-50016         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.005           Cata-Bitty-C+-ITP-M123-50017         012.000           Cata-Bitty-C   
  | FW2 Eddagement - Sprayed Concrete Production Testing     FW2 Eddagement - Spectra and Support     FW2 Eddagement - Park Article and Support     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     FLI Eddagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when app lashle)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement - Park Article Institution     Vist - Substrate and Depresentation     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     CP1 Endagement     Outstate Institution (when applicable)     FTW1 - Sprayed Concrete Production Testing     Concrete Delivery Englement     Outstate Institution     Vist - Development     Outstate Instheneage    | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | 1         28/11/2012         306/120           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         13/12/2012         14/02/21           1         27/12/2012         28/02/24           1         27/12/2012         28/02/24           1         10/07/2013         28/02/24           1         10/07/2013         14/02/21           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         10/07/2013         14/02/24           1         01/07/2013         14/02/24           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/2013         11/04/20           1         01/07/21         20/12/201           1   
  | 44/32/33.3         256           66         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         60/02/2013         12/0           1         16/02/2013         12/0           1         16/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         22/0           1         10/02/2013         12/0           1         10/02/2013         12/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         10/02/2013         10/0           1         24/02/2013         25.0           26         24/12/2012         26.0           26         <  
   | 222013         54           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         18         14           96,72013         13         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         7         14           7         14         22,2713         285         14           92,22013         285         14         14           92,22013         285         14         14           92,22013         45         14         14           92,22013         45         14         14           92,22013   
  | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000  | 40967 10/1/2013<br>   
  | 2 PMC-009 3 2 PMC-01516        |   | 1601/2013 OCM01 9  | 1         1501 2013         PAG-           2         -         -           2         -         -           2         -         -           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         -           10         -         -           10         -         -           11         -         -           12         -         -           13         -         -           14         -         -           15         -         -           16         -         -           17         -         -           16         -         -           17         -         -           18         -         -           19         -         -           19         -         -           10         -   |  |   |   | Code 2       Rev 1 with code 3       Once accepted with or replicated and sent       awaiting respond to rev 1       Once accepted with preplicated and sent       B AR #D       B AR #D   | | | | | | | | |
  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |  
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   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| 433-8/RC-4-117-M123-50006         012.005           433-8/RC-4-117-M123-80007         012.005           433-8/RC-4-117-M123-80007         012.005           433-8/RC-4-117-M123-80007         012.005           433-8/RC-4-117-M123-80007         012.005           433-8/RC-4-117-M123-80017         012.005           433-8/RC-4-117-M123-80013         012.005           433-8/RC-4-117-M123-80014         012.005           433-8/RC-4-117-M123-80015         012.005           433-8/RC-4-117-M123-80014         012.002           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0           612.0020         0  
  | FTW2 Ediagenent- Sprayed Concrete Production Testing     FTW2 Ebiagenent- Developing and Depresentation     FTW2 Ebiagenent- Parketing and Depresentation     FLI Ebiagenent- Parketing     FLI Ebiagenent- Parketing     FLI Ebiagenent- Sprayed Concrete Production Testing     FLI Ebiagenent- Sprayed Concrete Production     FLI Ebiagenent- Sprayed Concrete Production     FLI Ebiagenent-Sprayed Concrete Production     FLI Ebiagenent-Sprayed Concrete Production     FLI     FLI Ebiagenent-Sprayed Concrete Production     FLI     FLI Ebiagenent-Sprayed Concrete Production     FLI      | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Bit         Bit<         Bit         Bit         Bit <td>24/32/2013         256           36         09/07/2013         12/0           37         09/07/2013         12/0           36         09/07/2013         12/0           37         09/07/2013         12/0           36         09/07/2013         12/0           36         10/07/2013         22/0           36         10/07/2013         22/0           36         10/07/2013         22/0           36         10/07/2013         22/0           37         13/07/2013         23/0           38         19/07/2013         24/0           39         13/07/2013         14/0           39         13/07/2013         14/0           39         14/07/2013         14/0           39         14/07/2013         14/0           39         14/07/2013         14/0           40         28402012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40</td> <td>B222013         S         S4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         14         14           94,72013         14         14           95,72013         43         14           96,72013         43         14           97         14         14           97         14         14           97         14         14           97         14         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         <t< td=""><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>00000000000000000000000000000000000</td><td>40967 10/1/2013<br/></td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1501/2013 OCM01 9</td><td>1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1</td><td></td><td></td><td></td><td>Code 2         Rev1 with code 3         Once accepted with the replicated and sent         Socies accepted with the replicated and sent         Once accepted with the replicated and sent         P         P         P         P         P         P         P         P         P         P         P         P         P      P</td></t<></td>  
   | 24/32/2013         256           36         09/07/2013         12/0           37         09/07/2013         12/0           36         09/07/2013         12/0           37         09/07/2013         12/0           36         09/07/2013         12/0           36         10/07/2013         22/0           36         10/07/2013         22/0           36         10/07/2013         22/0           36         10/07/2013         22/0           37         13/07/2013         23/0           38         19/07/2013         24/0           39         13/07/2013         14/0           39         13/07/2013         14/0           39         14/07/2013         14/0           39         14/07/2013         14/0           39         14/07/2013         14/0           40         28402012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40         2412/2012         260           40  
  | B222013         S         S4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         14         14           94,72013         14         14           95,72013         43         14           96,72013         43         14           97         14         14           97         14         14           97         14         14           97         14         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013         -38         14           922013 <t< td=""><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>00000000000000000000000000000000000</td><td>40967 10/1/2013<br/></td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1501/2013 OCM01 9</td><td>1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1</td><td></td><td></td><td></td><td>Code 2         Rev1 with code 3         Once accepted with the replicated and sent         Socies accepted with the replicated and sent         Once accepted with the replicated and sent         P         P         P         P         P         P         P         P         P         P         P         P         P      P</td></t<>  
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000  | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516        |   | 1501/2013 OCM01 9  | 1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1        
1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1  |  |   |   | Code 2         Rev1 with code 3         Once accepted with the replicated and sent         Socies accepted with the replicated and sent         Once accepted with the replicated and sent         P         P         P         P         P         P         P         P         P         P         P         P         P      P  |  |  |  |   |  
  |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   |  
  |  |                     |                         |  |                   |   |  |  |  |  |
| E433-BIK-C-4-ITP-M122-3-0006         012.005           E433-BIK-C-4-ITF-M122-3-0007         012.005           E433-BIK-C-4-ITF-M122-3-0007         012.005           E433-BIK-C-4-ITF-M122-3-0007         012.005           E433-BIK-C-4-ITF-M122-3-0007         012.005           E433-BIK-C-4-ITF-M122-3-0012         012.005           E433-BIK-C-4-ITF-M122-3-0013         012.005           E433-BIK-C-4-ITK-M122-3-0014         012.000           C12.000         012.000         012.000           C12.001         012.002         0           C12.002         012.002 <td< td=""><td>FTW2 Ediargement - Sprayed Concrete Production Testing     FTW2 Ebiargement - Developing and Depresentiesson     FTW2 Ebiargement - Prove Arch Instalistics (when say leable     FLI Ebiargement - Sprayed Concrete Production Testing     FLI Ebiargement - Developing and Depresentiesson     FLI Ebiargement - Prev Arch Instalistics (when say leable     CFI Ebiargement - Sprayed Concrete Production Testing     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Develow 2000     Conselect Conne     Develow 2000</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>Image: Section of the sectio</td><td>48         24/13/2013         26           69         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         0         09/02/2013         12/0           1         0         09/02/2013         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         14/0         12/0           3         16/02/2013         13/0         14/0           4         15/02/2013         14/0         14/0           4         48688888         19/02/2013         14/0           4         486988888         19/02/2013         14/0           4         48/02/2012         2.60         10/02/2013           5</td><td>B222013         D         D4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14           94,72013         14         14           94,72013         14         14           96,72013         1         14           96,72013         1         14           96,72013         1         14           97         14         14           97         14         14           97         14         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35&lt;</td><td>31/10/2012 CCM<br/>21/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>00000000000000000000000000000000000</td><td>40967 10/1/2013<br/></td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1501/2013 OCM01 9</td><td>1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1</td><td></td><td></td><td></td><td>Oode 2         Ret 1 with code 3         Once accepted with or rey 1         Once accepted with or replicated and seat         Sat &amp; BD         Sat &amp; BD         Sat &amp; BD         Sat &amp; BD         Sat &amp; BD</td></td<>  | FTW2 Ediargement - Sprayed Concrete Production Testing     FTW2 Ebiargement - Developing and Depresentiesson     FTW2 Ebiargement - Prove Arch Instalistics (when say leable     FLI Ebiargement - Sprayed Concrete Production Testing     FLI Ebiargement - Developing and Depresentiesson     FLI Ebiargement - Prev Arch Instalistics (when say leable     CFI Ebiargement - Sprayed Concrete Production Testing     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Concrete Delevey Ebiapment     Develow 2000    Conselect Conne     Develow 2000     Conselect Conne     Develow 2000                        | $\begin{array}{c c c c c c c c c c c c c c c c c c c $  
  | Image: Section of the sectio  | 48         24/13/2013         26           69         09/02/2013         12/0           1         09/02/2013         12/0           1         09/02/2013         12/0           1         0         09/02/2013         12/0           1         0         09/02/2013         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           1         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         12/0         12/0           2         16/02/2013         14/0         12/0           3         16/02/2013         13/0         14/0           4         15/02/2013         14/0         14/0           4         48688888         19/02/2013         14/0           4         486988888         19/02/2013         14/0           4         48/02/2012         2.60         10/02/2013           5  
   | B222013         D         D4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         14         14         
 94,72013         14         14           94,72013         14         14           96,72013         1         14           96,72013         1         14           96,72013         1         14           97         14         14           97         14         14           97         14         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35         14           922013         35<  
  | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000  | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516        |   | 1501/2013 OCM01 9  | 1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1  |  |   | | | | | | | | |
  | Oode 2         Ret 1 with code 3         Once accepted with or rey 1         Once accepted with or replicated and seat         Sat & BD  |  |  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  
   |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| cs3-amc-c+rTP-4123-40006         612.005           cs3-amc-c+rTP-4123-40007         612.005           cs3-amc-c+rTP-4123-40007         612.005           cs3-amc-c+rTP-4123-40007         612.005           cs3-amc-c+rTP-4123-40011         612.005           cs3-amc-c+rTP-4123-40011         612.005           cs3-amc-c+rTP-4123-40011         612.005           cs3-amc-c+rTP-4123-40011         612.005           cs3-amc-c+rTP-4123-40011         612.005           cs3-amc-c+rTP-4123-40013         612.005           cs3-amc-c+rTP-4123-40014         612.005           cs3-amc-c+rTP-4123-40013         612.005           cs3-amc-c+rTP-4123-40013         612.005           cs3-amc-c+rTP-4123-40014         612.005           cs3-amc-c+rTP-4123-40013         612.005           cs3-amc-c+rTP-4123-40014         612.000           c12.000         0           cs4-amc-c+rTP-4123-40014         612.000           c12.000         0           cs4-amc-c+rTP-4123-40014         612.000           c12.000         0           c3-amc-c-rTP-4123-40015         612.000           c12.000         0           c3-amc-c-rTP-4123-40015         612.000           c3-amc-c-rTP-4123-40016         612.000  
  | FW2 Edargement - Sprayed Concrete Production Testing     FW2 Edargement - Developing and Depresentings     FW2 Edargement - Pipe Arch Installation (when app laable)     FLI Edargement - Pipe Arch Installation (when app laable)     FLI Edargement - Pipe Arch Installation (when app laable)     FLI Edargement - Pipe Arch Installation (when applicable)     CP1 Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein Production Testing     CP1 Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Downstrein Pipe Arch Installation (when applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Downstrein Pipe Arch Installation (When applicable)     TFW1 - Downstrein g and Depresenvision     O Edargement - Downstrein Pipe Arch Installation (When applicable)     TFW1 - Downstrein g and Depresenvision     D Edargement - Downstrein g and Depresenvision     TFW - Downstrein g arch Installation (When applicable)     TFW1 - Downstrein g and Depresenvision     D Mattallation (When applicable)     TFW1 - Downstrein g and Depresenvision     D Mattallation (When applicable)     D Mattallation (When applicable)     D Mattallation (When applicable)     Mattalation (When applicable)     Mattallation (When applicable)     M | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Image: Section of the sectio  
   | 46         24/13/2013         256           96         09/07/2013         12/0           96         09/07/2013         12/0           96         09/07/2013         12/0           96         09/07/2013         12/0           96         09/07/2013         12/0           96         09/07/2013         12/0           96         09/07/2013         12/0           97         19/07/2013         12/0           98         19/07/2013         22/0           95         19/07/2013         22/0           96         19/07/2013         22/0           97         19/07/2013         12/0           98         19/07/2013         12/0           91         19/07/2013         19/0           92         19/07/2013         19/0           94         19/07/2013         19/0           94         19/07/2013         19/0           94         19/07/2013         19/0           94         19/07/2013         19/0           94         19/07/2013         19/0           94         19/07/2013         19/0           94         24/12/012         24  
  | 222013         54           242013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           96,7013         41         14           96,7013         43         14           96,7013         43         14           97         14         14           7         14         14           7         14         14           7         14         14           7         14         14           92,2013         36         14           92,2013         36         14           92,2013         38         14           92,2013         38         14           92,2013         38         14           92,2013         38         14  
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000  | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516        | | | | | | | | | | | | | | |
  | 1501/2013 OCM01 9  | 1         1501 2013         PAG-           2         1501 2013         PAG-           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           3         2         2           4         2         2           5         2         2           4         2         2           5         2         2           6         2         2           7         2         2           8         2         2           9         2         2           9         2         2           10         2         2           10         3         3           10         3         3           10         3<   |  |   |   | Code 2         Rev 1 with code 3         Onces accepted with replicated and sent         Socies accepted with replicated and sent         Onces accepted with replicated and sent         Once accepted with replicated and sent         Staft BD         \$ AR BD         \$ AR BD         \$ AR BD </td  |  |   
  |  |   |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  
   |   |   |  |                     |                         |  |                   |   |  |  |  |  |
| cs3-amc-c+rt7-st22-40006         012.005           cs3-amc-c+rt7-st22-40007         012.005           cs3-amc-c+rt7-st22-40007         012.005           cs3-amc-c+rt7-st22-40007         012.005           cs3-amc-c+rt7-st22-40010         012.005           cs3-amc-c+rt7-st22-40011         012.005           cs3-amc-c+rt7-st22-40011         012.005           cs3-amc-c+rt7-st22-40011         012.005           cs3-amc-c+rt7-st22-40014         012.000           cs3-amc-c+rt7-st22-40014         012.005           cs3-amc-c+rt7-st22-40014         012.000           cs3-amc-c+rt7-st22-40014         012.000           cs3-amc-c+rt7-st22-40014         012.000           cs4-amc-c+rt7-st22-40014         012.000           cs4-amc-c+rt7-st22-40014         012   
   | FW2 Edargement - Sprayed Concrete Production Testing     FW2 Edargement - Developing and Depresentation     FW2 Edargement - Type Arch     Installation (when app label)     FL1 Edargement - Developing     FL2 Edargement     FL2 Edar | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Image: Second   
   | 46         24/13/2013         250           46         06/07/2013         12/0           47         06/07/2013         12/0           48         06/07/2013         12/0           49         06/07/2013         12/0           45         06/07/2013         12/0           45         06/07/2013         12/0           46         16/07/2013         22/0           47         16/07/2013         22/0           48         16/07/2013         22/0           49         19/07/2013         22/0           40         19/07/2013         24/0           41         19/07/2013         14/0           42         19/07/2013         14/0           43         14/07/2013         14/0           44         19/07/2013         14/0           45         14/07/2013         14/0           46         24/12/012         260           46         24/12/012         260           46         24/12/012         260           46         24/12/012         260           46         24/12/012         260           46         24/12/012         260   
  | 222013         54           242013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         8         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           94,7013         18         14           96,7013         41         14           96,7013         43         14           96,7013         43         14           97         14         14           7         14         14           7         14         14           7         14         14           7         14         14           92,2013         36         14           92,2013         36         14           92,2013         38         14           92,2013         38         14           92,2013         38         14           92,2013         38         14  
   | 31/10/2012 CCM<br>21/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>00000000000000000000000000000000000  | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516        |   |  | 1         1501 2013         PAG-           2         1501 2013         PAG-           2         2         2           2         2         2           2         2         2           2         2   
     2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           3         2         2           4         2         2           5         2         2           6         2         2           7         2         2           8         2         2           9         2         2           9         2         2           10         2         2           10         2         2           11         2         2           12         2         2           13         2   |  |   |   | Code 2         Rev1 with code 3         Once accepted will be replicated and sent         swalling respond to rev 1         Once accepted will be replicated and sent         P         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?         ?  |  |  |  |   |   
   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   |   
   |  |                     |                         |  |                   |   |  |  |  |  |
| Ex15-BPK-C4-TTP-M122-50006         012.005           Ex15-BPK-C4-TTP-M122-50007         012.005           Ex15-BPK-C4-TTP-M122-50007         012.005           Ex15-BPK-C4-TTP-M122-50007         012.005           Ex15-BPK-C4-TTP-M122-50007         012.005           Ex15-BPK-C4-TTP-M122-50007         012.005           Ex15-BPK-C4-TTP-M122-50012         012.005           Ex15-BPK-C4-TTP-M122-50013         012.005           Ex15-BPK-C4-TTP-M122-50013         012.005           Ex15-BPK-C4-TTP-M122-50015         012.005           Ex15-BPK-C4-TTP-M122-50015         012.005           Ex15-BPK-C4-TTP-M122-50015         012.005           Ex15-BPK-C4-TTP-M122-50015         012.005           Ex12-BPK-C4-TTP-M122-50015         012.005           Ex12-BPK-C4-TTP-M122-50015         012.000           O12.000         012.000           C12.000         012.000           O12.000         012.000           C12.000         012.000           O12.000         012.000           C12.000         012.000           O12.000         012.000           O12.000         012.000           O12.000         012.000           O12.000         012.000           O12.000   
  | FW2 Eslangement - Sprayed Concrete Production Teeting,     FW2 Eslangement - Deventoring and Depresentings     FW2 Eslangement - Pipe Arch Installation (when applicable)     FLI Enlargement - Pipe Arch Installation (when applicable)     FLI Enlargement - Pipe Arch Installation (when applicable)     CP1 Enlargement - Pipe Arch Installation (when applicable)     TVV1 - Sprayed Concrete Production Teeting     CP1 Enlargement - Deventoring and Depresentation     TVV1 - Pareview Installation (when applicable)     TVV1 - Deventoring and Depresentation     Works 34 Studies     Kobing Concrete Production Teeting     TVX - Type Concrete Production     | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Bit         Bit<         Bit         Bit         Bit <td>24/13/2013         250           46         09/07/2013         12/0           47         09/07/2013         12/0           48         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         10/07/2013         22/0           49         10/07/2013         22/0           49         10/07/2013         22/0           40         19/07/2013         24/0           41         13/07/2013         14/0           41         13/07/2013         14/0           41         13/07/2013         14/0           42         13/07/2013         14/0           42         14/07/2013         14/0           44         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45</td> <td>B222013         S         S4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         14         14           97,72013         41         14           97,72013         41         14           97,72013         43         14           97,72013         43         14           97,731         14         14           97,71         14         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         326         14</td> <td>31/10/2012 COM<br/>21/12/2012 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>05 12/2012 COM<br/>07 12/2012 COM</td> <td>40967 10/1/2013<br/></td> <td>2 PMC-009 3 2 PMC-01516</td> <td></td> <td>1501/2013 OCM01 9</td> <td>1         1501 2013         PAG-           2         1501 2013         PAG-           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           3         2         2           4         2         2           5         2         2           6         2         2           7         2         2           8         2         2           9         2         2           10         2         2           10         2         2           10         3         3           11         3         3           12         4         4           13</td> <td></td> <td></td> <td></td> <td>Code 2         Rev1 with code 3         Onces accepted will be replicated and seat         awailing responds nev 1         Onces accepted will be replicated and seat         Once accepted will be replicated and seat         B AR #D         B AR #D         B AR #D</td>  
   | 24/13/2013         250           46         09/07/2013         12/0           47         09/07/2013         12/0           48         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         09/07/2013         12/0           49         10/07/2013         22/0           49         10/07/2013         22/0           49         10/07/2013         22/0           40         19/07/2013         24/0           41         13/07/2013         14/0           41         13/07/2013         14/0           41         13/07/2013         14/0           42         13/07/2013         14/0           42         14/07/2013         14/0           44         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45         24/12/012         260           45   
  | B222013         S         S4           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         14         14           97,72013         41         14           97,72013         41         14           97,72013         43         14           97,72013         43         14           97,731         14         14           97,71         14         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         425         14           92,72013         326         14   
   | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>05 12/2012 COM<br>07 12/2012 COM   | 40967 10/1/2013<br>  | 2 PMC-009 3 2 PMC-01516        |   | 1501/2013 OCM01 9  
   | 1         1501 2013         PAG-           2         1501 2013         PAG-           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           2         2         2           3         2         2           4         2         2           5         2         2           6         2         2           7         2         2           8         2         2           9         2         2           10         2         2           10         2         2           10         3         3           11         3         3           12         4         4           13  |  |   |   | Code 2         Rev1 with code 3         Onces accepted will be replicated and seat         awailing responds nev 1         Onces accepted will be replicated and seat         Once accepted will be replicated and seat         B AR #D         B AR #D         B AR #D  |  |  |  | | | | | | | | |
   |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   
   |   |  |                     |                         |  |                   |   |  |  |  |  |
| css-amc-c+rth-M123-6000         C12.005           cst-amc-c+rth-M123-6007         C12.005           cst-amc-c+rth-M123-6007         C12.005           cst-amc-c+rth-M123-6007         C12.005           cst-amc-c+rth-M123-6009         C12.005           cst-amc-c+rth-M123-6009         C12.005           cst-amc-c+rth-M123-6001         C12.000           c12.000         C12.000           c12.001         C12.000           c12.002         C           cst-amc-c+rth-M123-6001         C12.000           c12.002         C           c12.003         C12.000           c12.003         C12.000           c3.64mc-d-rth-C-M123-50001         C12.000           c3.   
  | FW2 Enlargement - Sprayed Concrete Production Teeting,     FW2 Enlargement - Deventoring and Depresentings     FW2 Enlargement - Prove Articles and Support     FLI Enlargement - Prove Articles in the Institution (when any leak)     FLI Enlargement - Prove Articles and Support     FLI Enlargement - Prove Articles     FLI Enlargement - Prove Arch Instalation (when applicable)     CP1 Enlargement - Prove Arch Instalation (when applicable)     CP1 Enlargement - Prove Arch Instalation (when applicable)     FTW1 - Sprayed Concrete Production Teeting     CP1 Enlargement - Prove Arch Instalation (when applicable)     FTW1 - The Arches Instalation     Moreha 21 & MUT Particle The Arches     FTW1 - The Arches Instalation     FTW1 - The Arches | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Bit         Bit<         Bit         Bit         Bit <td>8         24/13/2013         250           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         10/07/2013         12/0           9         10/07/2013         12/0           10         10/07/2013         12/0           10         11/07/2013         12/0           10         11/07/2013         13/0           10         11/07/2013         13/0           11         11/07/2013         13/0           12         11/07/2013         13/0           13         11/07/2013         13/0           14         11/07/2013         13/0           15         24/12/012         10/0           16         24/12/012         260           16         24/12/012         260           17/12/021         10/0         24/12/012         260<td>222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         14         14           96,72013         43         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         32         14           922013         325         14         14           922013         326         14         14           922013         326         14         14           922013         326         14         14           922013         328         14         14</td><td>31/10/2012 COM<br/>21/12/2012 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>05 12/2012 COM<br/>07 12/2012 COM</td><td>409567 10/11/2011<br/>-01378
18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/0</td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td></td><td>1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1</td><td></td><td></td><td></td><td>Code 2         Rev1 with code 3         Onces accepted will be replicated and seat         awailing responds nev 1         Onces accepted will be replicated and seat         Once accepted will be replicated and seat         B AR #D         B AR #D         B AR #D</td></td> | 8         24/13/2013         250           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         00/07/2013         12/0           9         10/07/2013         12/0           9         10/07/2013         12/0           10         10/07/2013         12/0           10         11/07/2013         12/0           10         11/07/2013         13/0           10         11/07/2013         13/0           11         11/07/2013         13/0           12         11/07/2013         13/0           13         11/07/2013         13/0           14         11/07/2013         13/0           15         24/12/012         10/0           16         24/12/012         260           16         24/12/012         260           17/12/021         10/0         24/12/012         260 <td>222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         14         14           96,72013         43         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         32         14           922013         325         14         14           922013         326         14         14           922013         326         14         14           922013         326         14         14           922013         328         14         14</td> <td>31/10/2012 COM<br/>21/12/2012 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>05 12/2012 COM<br/>07 12/2012 COM</td> <td>409567 10/11/2011<br/>-01378 18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2013<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/01/2012<br/>18/0</td> <td>2 PMC-009 3 2 PMC-01516</td> <td></td> <td></td> <td>1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1</td> <td></td> <td></td> <td></td> <td>Code 2         Rev1 with code 3         Onces accepted will be replicated and seat         awailing responds nev 1         Onces accepted will be replicated and seat         Once accepted will be replicated and seat         B AR #D         B AR #D         B AR #D</td>  
   | 222013         24           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         14         14           96,72013         43         14           96,72013         43         14           97         14         7         14           7         14         7         14           7         14         32         14           922013         325         14         14           922013         326         14         14           922013         326         14         14           922013         326         14         14           922013         328         14         14  
  | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>05 12/2012 COM<br>07 12/2012 COM   | 409567 10/11/2011<br>-01378 18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2013<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/01/2012<br>18/0 | 2 PMC-009 3 2 PMC-01516        | | | | | | | | | | | | | |
   |  | 1         1501 2013         PAG-           1         1501 2013         PAG-           1         1         1           1         1  |  |   |   | Code 2         Rev1 with code 3         Onces accepted will be replicated and seat         awailing responds nev 1         Onces accepted will be replicated and seat         Once accepted will be replicated and seat         B AR #D         B AR #D         B AR #D  |  |  |  |  
  |   |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |  
  |   |  |                     |                         |  |                   |   |  |  |  |  |
| cs3-smr.c-c-rm.m123-d0006         C12005           cs1-smr.c-c-rm.m123-d0007         C12005           cs1-smr.c-c-rm.m123-d0007         C12005           cs1-smr.c-c-rm.m123-d0007         C12005           cs1-smr.c-c-rm.m123-d0007         C12005           cs1-smr.c-rm.m123-d0010         C12005           cs1-smr.c-rm.m123-d0011         C12005           cs1-smr.c-rm.m123-d0011         C12005           cs1-smr.c-rm.m123-d0011         C12005           cs1-smr.c-rm.m123-d0011         C12005           cs1-smr.c-rm.m123-d0011         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.m123-d0015         C12005           cs1-smr.c-rm.c-rm.m123-d0015         C12005           cs1-smr.c-rm.c-rm.m123-d0015         C12005           cs1-smr.c-rm.c-rm.m123-d0015         C12000           cs1-smr.c-rm.c-rm.c-rm.c-rm.c-rm.c-rm.c-rm.c-   
  | FTW2 Eduargement - Sprayed Concrete Production Testing     FTW2 Eduargement - To exelecting and Depresentations     FTW2 Eduargement - Prove Arch Installation (when any loadh     FLI Eduargement - Prove Arch Installation (when any loadh     FLI Eduargement - Prove Arch Installation (when any loadh     FLI Eduargement - Prove Arch Installation (when any loadh     CFI Eduargement - Prove Arch Installation (when any loadh     CFI Eduargement - Prove Arch Installation (when any loadh     CFI Eduargement - Prove Arch Installation (when any loadh     CFI Eduargement - Sprayed Concrete Production Testing     CFI Eduargement - Sprayed Concrete Production Testing     CFI Eduargement - Sprayed Concrete Production Testing     CFI Instrugement - Revealed Installation (when applicable)     TFWI - Sprayed Concrete Production Testing     CFI Instrugement - Sprayed Concrete Production Testing     CFI - Type Archae Installation (when applicable)     TFWI - Sprayed Concrete Production Testing     CFI - Type Archae Installation (when applicable)     TFWI - Sprayed Concrete Production Testing     Concrete Delivery Eduargement     Concrete Delivery Eduargement | ITT     V     I     I       ITT     V     I       ITT     I     I   <  | Image: Section of the sectio  
   | 46         24/13/2013         256           66         09/07/2013         13/0           1         09/07/2013         13/0           1         09/07/2013         13/0           1         09/07/2013         13/0           1         10/07/2013         13/0           1         10/07/2013         13/0           1         10/07/2013         23/0           1         10/07/2013         23/0           1         10/07/2013         23/0           1         10/07/2013         23/0           1         10/07/2013         13/0           1         11/07/2013         13/0           1         11/07/2013         14/0           1         11/07/2013         14/0           1         11/07/2013         14/0           1         11/07/2013         14/0           1         11/07/2013         14/0           1         10/07/2013         14/0           1         10/07/2013         14/0           1         10/07/2013         14/0           1         10/07/2013         14/0           1         10/07/2012         10/0 <t< td=""><td>B222013         S3           94,72013         8         14           94,72013         8         34           94,72013         8         34           94,72013         8         34           94,72013         8         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           96,72013         41         34           96,72013         43         34           96,72013         43         34           96,72013         43         34           97         14         34           97         14         34           97         14         34           922013         280         14           922013         280         14           922013         281         14           922013         32         14           922013         32         14           922013         34</td><td>31/10/2012 CCM<br/>31/12/2012 CCM<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>22/01/2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>409567 10/11/2011<br/>-01373 19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>-0175 10/10/2012<br/>4007 5 19/10/2012</td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1501/2013 OCM01 9</td><td>1         1501 2013         PAC-           1         1501 2013         PAC-           1         1         1           1         1</td><td>D1551        </td><td></td><td></td><td>ba P<br/>R transmission<br/>R transm</td></t<>  
  | B222013         S3           94,72013         8         14           94,72013         8         34           94,72013         8         34           94,72013         8         34           94,72013         8         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           94,72013         18         34           96,72013         41         34           96,72013         43         34           96,72013         43         34           96,72013         43         34           97         14         34           97         14         34           97         14         34           922013         280         14           922013         280         14           922013         281         14           922013         32         14           922013         32         14           922013         34  
   | 31/10/2012 CCM<br>31/12/2012 CCM<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>22/01/2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0            | 409567 10/11/2011<br>-01373 19/01/2013<br>19/01/2013<br>19/01/2013<br>-0175 10/10/2012<br>4007 5 19/10/2012  | 2 PMC-009 3 2 PMC-01516        |   | 1501/2013 OCM01 9  | 1         1501 2013         PAC-           1         1501 2013         PAC-           1         1         1           1         1   
  | D1551  |   |   | ba P<br>R transmission<br>R transm |  |  |  |   |   |   |   |                     |                         |   
  |                          |  |  |  |  |  |                          |   |  |  |   |   |  |                     |                         |  |                   |   |  |  |  |  
   |
| c43-4R/C-4/TF-M123-40006         C12005           c43-4R/C-4/TF-M123-40007         C12005           c43-4R/C-4/TF-M123-40007         C12005           c43-4R/C-4/TF-M123-40007         C12005           c43-4R/C-4/TF-M123-40007         C12005           c43-4R/C-4/TF-M123-40007         C12005           c43-4R/C-4/TF-M123-40010         C12005           c43-4R/C-4/TF-M123-40011         C12005           c43-4R/C-4/TF-M123-40012         C12005           c43-4R/C-4/TF-M123-40013         C12005           c43-4R/C-4/TF-M123-40014         C12005           c43-4R/C-4/TF-M123-40015         C12005           c43-4R/C-4/TF-M123-40015         C12005           c12003         C12003  
  | FW2 Enlargement - Sprayed Concrete Production Teeting,     FW2 Enlargement - Deventoring and Depresentings     FW2 Enlargement - Prove Anti-Institution (when applicable)     F13 Enlargement - Proventing and Depresentation     F13 Enlargement - Prove Anti-Institution (when applicable)     F13 Enlargement - Proventing and Depresentation     F14 Enlargement - Proventing and Depresentation     F14 Enlargement - Proventing and Depresentation     F141 - Developing adjugnment     Goncrete Delivery Edjugnment     Forde co CKE 11000 Crawler Crame     Grane 100 T     Huppen Decemptor Crame     F152 - Ch171 Decked Turnel Excendor     F152 - Ch171 Decked Turnel Excendor     F153 - Decemptor     F154 - Developing Excendor     F154 - Developing Excendor     F155 - Decked Compressor     MAX28500 Dises (Compressor     MAX28500 Dises (Co | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   | Image: Section of the sectio   
  | 8         24/13/2013         250           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         13/0           9         00/07/2013         23/0           9         00/07/2013         23/0           9         00/07/2013         23/0           9         01/07/2013         23/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2013         14/0           9         01/07/2012         260           9         01/07/07/2012         260 <td< td=""><td>222013         24           222013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         41         14           96,72013         43         14           96,72013         43         14           7         14         14           7         14         14           7         14         14           7         14         14           7         14         14           7         14         14           92,2013         26         14           92,2013         28         14           92,2013         28         14           92,2013         28         14     &lt;</td><td>31/10/2012 COM<br/>21/12/2012 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>22/01/2013 COM<br/>05 12/2012 COM<br/>05 12/2012 COM<br/>00 10/2012 COM</td><td>409567 10/11/2011<br/>-01373 19/01/2013<br/>19/01/2013<br/>19/01/2013<br/>-0175 10/10/2012<br/>4007 5 19/10/2012</td><td>2 PMC-009 3 2 PMC-01516</td><td></td><td>1501/2013 OCM01 9</td><td>11         1501 2013         PAC-           1501 2013         PAC-         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1         1           1         1         1         1         1         1           1</td></td<> <td></td> <td></td> <td></td> <td>Cole 2         Ret with cole 3         Ocea scepted will be replicated and seat         Scea scepted will be replicated and seat         Ocea scepted will be replicated and seat</td>   
  | 222013         24           222013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         8         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           94,72013         18         14           96,72013         41         14           96,72013         43         14           96,72013         43         14           7         14         14           7         14         14           7         14         14           7         14         14           7         14         14           7         14         14           92,2013         26         14           92,2013         28         14           92,2013         28         14           92,2013         28         14     <  
   | 31/10/2012 COM<br>21/12/2012 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>22/01/2013 COM<br>05 12/2012 COM<br>05 12/2012 COM<br>00 10/2012 COM                               | 409567 10/11/2011<br>-01373 19/01/2013<br>19/01/2013<br>19/01/2013<br>-0175 10/10/2012<br>4007 5 19/10/2012  | 2 PMC-009 3 2 PMC-01516        |   | 1501/2013 OCM01 9  | 11         1501 2013         PAC-           1501 2013         PAC-         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1           1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1         1         1         1      
  1         |  |   |   | Cole 2         Ret with cole 3         Ocea scepted will be replicated and seat         Scea scepted will be replicated and seat         Ocea scepted will be replicated and seat   |  |  |  |   |  
  |   |   |                     |                         |  |                          |  |  |  |  |  |                          |   |  |  |   |   |  
   |                     |                         |  |                   |   |  |  |  |  |





X

# 18.5 Appendix 5 – Checklist for Pre-start work documentation

	rossrail			C435 FARRINGDON MAIN STATION E START WORK DOCUMENTATIO	ON BFK
	DATE:		•	REFERENCE:	· •
	LOCATION	:		SECTION:	
	WORK TYP	E:		WORK AREA:	
	ORIGINAT COMPANY:			HAND BACK PACKAGE:	
	ORIGINAT	OR:		READINESS REVIEW TRACKER:	
W	orks to proceed	CODE 1 / New revision or F	CODE 2 CD needed Address comments but work can proceed	CODE 3 Works must not start	CODE 4 For information
D	DCUMENT TITLE	eB NUMBER		CRL RESPONSE	
(RF Rea Rea Tra <b>Na</b>	RT ecked? RT – adiness view acker) acker) me: gned/Date:	Document Checked? Name: Signed/Date:	Verified Checked? (Third party person) Name: Signed/Date:		





# **18.6 APPENDIX 6 – Typical Package Listing Template**

# NOTUSED





# 18.7 Appendix 7 – Typical Package Review Statement Template

NOTUSED





# 18.8 Appendix 8 – Typical Sub-Construction Certificate Template

Crossral			CERTIFICATE t 1 of 2
	CONTRACTO	R STATEMEN	NT
Contract Number: C435	Co	ntract Deliverable N	lo: C13.006
Contract Name:	SU	Construction Cer	
Design Cert:		ckage Listing & Rev sument	view Statement: see inwr 2 or 2 or thiw
Contractor Name: BFK JV			
Name and location of element of co	nstruction:		
Precise limits covered by this certific	cate:		6
comply with the relevant Works in used, including testing, are in co reflected in the marked up drawing and that the element of works are	formation and contrac mpliance with the r s referenced on the e complete, subject t	ct specific data. The equirements of the attached Part 2 of to the completion of	above, has been constructed so as to electring out, materials and workmanship el Contract and the certified design as 2 of this document, the Package Listing, f the Works stated on the Consolidated cument. [Strikeout and mark N/A If Not
Signed		For and or behalf of	
Name	Position		Date
	Suparvica	r's Statement	
Applicable]	s Sub-Construction	Certificate and have	e identified the following Defects in art 2 of this document. [Strikeout if Not
Signed			

Signed Name Date.

Project Manager's Statement						
I confirm acceptance of this Sub-Construction Certificate [Strikeout If Not Applicable]	subject to the Outstanding Works List as noted above.					
Signed						
Name	Date.					

Valid only if viewed through the CRL Management System Portal on Crossrail Connect

### Crossrail Limited

(Supersedes CRL1-XRL-2-ZTM-CR001-50003, Rev 1.0)

CRL RESTRICTED

Templete: CRL1-XRL-04-Z7M-CR001-50028 Rev 1.0 Related Procedure: CRL1-XRL-04-SR 0-CR001-50005





	Crossral SUB*/CONST	RUCTION CERTIFICA TE Part 2 of ALLATION RELEASE NOTE Part 2 PACKAGE LIST	2 or of 2
	ConfractDell wrable No. C13.00% SUB CONSTRUCTION NO: Part2 of 2	C300-BFK-O-CER-CRT00_ST005-50114 R+ 1.0	
ord H	and location of element of construction: III Bridge Utility (Abrix ) Indirect e limita covered by this package (including tamporary works leftin place);		
nam	er Væter permanent water. Main work i		
	THEFOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS Document Title	DO NOT DELETE "NOT APPLICABLE" IT EMS Document Number	Revision
1	REFERENCE COCUMENTS		
_	Anole Contract Construction Certificate Construction Certificate	Add WOCC number Add CC Number	
2	ASSURANCE RECOR DSSPECIFIC TO THIS PACKAGE Audit Reports	Not Applicable	
	Surveillance Reports	Not Applicable Not Applicable	
	Certificates of Competency of Personnel Performing Non Affecting Conformity to	Not Applicable	
_	Requirements (where (pecified) Valid Subcontractor QMS Certification - (SO 9001; 2008	Not Applicable	
- 3		tex v sebby to a pro-	0
3	DESIGN RECORDS		
	Dell wrable Delign Records relevant to the Construction Certificate Package required by: Part 13 of the Morks information Volume 2 B		
	Registerand is sue Record (RIR)	Not Applicable	
	Conceptual De lign Statement De lign Centicate I	Not Applicable Not Applicable	
-	Deligner CDM Rick Register	Not Applicable	
	Geotechnical Delign or Technical Reports	Not Applicable	
_	Surveyi Detailed Deilgni	Not Applicable	-
	De lign Specification	Not Applicable Not Applicable	
	Electronically Re-Drawn Operational drawing ist Revision Coestatus AB'ALBuilt (B) Originator)	Not Applicable	
4	CONSTRUCTION/INSTALLATION RECORDS		
	Delliverable Construction Records relevant to the Construction Certificate Package required by : Part 15 of the Works I Information Volume 2B		
4A	General Construction Records		
	Working Drawings (is used for Construction Co#)	Not Applicable	
-	Material Proposal Schedule	Not Applicable	-
	Material Compliance Records/Approvals	Not Applicable	
_	Eastory desentance Test Reports	Not Applicable	
-	Factory Acceptance Teit Reports	Not Applicable	
	Inspection & Test Plans	Not Applicable	4
-	ITP Deliverable Records Packages For exemple: Pling Records, Embedded unling, records, pre 8.postpour concrete, test	Not Applicable	
	reports, vieter proofing, compense ton grouting etc.		
_	Construction Method Statements	Not Applicable	
	Short Notice Change I (SNC)	. THE RESIDENCE MARKS	
_	Change Begins stand out (DILls)	MAR ANNIHARIA	
-	Change Request notices (PM is ) Requests for information (RFIs )	Not Applicable Not Applicable	
	Reid Clange Documents (FCDs)	Not Applicable	
-	Non-Contomance Reports and Notification of Defects (NCRs)	Not Applicable	
	Technical Reports	Not Applieable	
_	Settiement/Damage Reports (Building or Structural)	Not Applicable	
	Archaeological and Hiltorical Building Reports Surveys (e.g. CCTV Surveys)	Not Applicable Not Applicable	5
			2
	Third Party Required Records / Certificates of Acceptance	Not applicable	
	Highways Agen oy Local Antionty	Not Applicable Not Applicable	-
	Cas	Not Applicable	ĉ.
_	Electricity Water	Not Applicable Not Applicable	
_	Te boomms	Not Applicable Not Applicable	
-	DLR	Not Applicable	
	LUL	Not Applicable	

© Crossrail Limited Template: CRL1-XRL-04-2TM-CR001-50027 Rev 1.0 Related Procedure: CRL1-XRL-04-GPD-CR001-50006 CRL RESTRICTED (Supersedes CRL1-XRL-Z-ZTM-CR001-60001, Rev 2.0)





NOTE: Contractor is to mark as 'Not Applicable' those Document Requirements which do not apply to this Package

2 of 3

ord Teci	Part 2 of 2		
reci	e and location of element of construction:		
	Hill Bridge Utility Works Indirect		
	se limits covered by this package (including temporary works left in place) ies Water permanent water Main works		
	THE FOLLOWING DOCUMENTS/RECORDS ARE SPECIFIC TO THESE WORKS	DO NOT DELETE "NOT APPLICABLE" ITEMS	
	Document Title	Document Number	Revision
	NR Building Controls (CDL on Other)	Not Applicable	
	Building Controls (CRL or Other)	Not Applicable	
	Revision X0# Red Line Marked up Drawings	Not Applicable	3
	Hand-over Punchwork / Defects Lists	Not Applicable	22
	Lingth and Caleby Ele as defined in the Wester Liferantian	Not Applicable	73
	Health and Safety File as defined in the Works Information		
4B	Tunnelling Records:		
	Tunnelling / TBM ITP Deliverable Records Package Tunnel Alignment and Wriggle Survey	Not Applicable Not Applicable	8
	Ring Grouting Records	Not Applicable	
	Pre-cast Concrete Segment Casting Records	Not Applicable	
	Pre-Cast Concrete Ring Placement Records Pre-Cast Concrete Ring Core Records	Not Applicable Not Applicable	8
	Pre-Cast Concrete Ring Repair Records	Not Applicable	
	Invert Bar Reinforcement Records	Not Applicable	S.
	Spheroidal Graphite Iron Segment Casting Records Spheroidal Graphite Iron Ring Placement Records	Not Applicable	
	Spheroidal Graphite Iron Ring Placement Records	Not Applicable Not Applicable	
		abuk	2
4C	Sprayed Concrete Lining (SCL) Records: SCL Construction Management Plan	Not Applicable	
	SCL Key Personnel and Nozzlemen	Not Applicable	2
	SCL Installation of Instrumentation Records	Not Applicable	2
	SCL RESS	Not Applicable	
_	SCL Action Plan SCL ITP Deliverable Records Package: Primary Lining	Not Applicable Not Applicable	2
	SCL ITP Deliverable Records Package: Secondary Lining(including waterproofing)	Not Applicable	
5	TESTING AND COMMISSIONING RECORDS		
	Deliverable T&C Records relevant to the Installation Release Notice required by: Part 28 of the Works Information Volume 2B		
	Testing and Commissioning Plan (incl commissioning test descriptions &tst data	N. & Aug. B. and S.	-
	sheets)	Not Applicable	
	Commissioning Logic (Com Lot definitions) Individual Inspection & Test Plan(s)	Not Applicable	8
	Intermediate Static Test Report(s) [T&C deliverables, to incl a copy of the relevant test	Not Applicable	9
	plan]		-
	Calibration Certification Engineering Safety justifications	Not Applicable Not Applicable	75
	Commissioning Lot Asset Register	Not Applicable	-
	Any other?		<u> </u>
6			
6	OPERATION AND MAINTENANCE DELIVERABLE RECORDS Deliverable O&M Records relevant to the Construction Certificate Package required by:		1
	Part 13 of the Works Information Volume 2B		-
	Maintenance Records - Plant & Equipment	Not Applicable	
	Operation & Maintenance Manuals Records of Modifications made to the Completed Infrastructure or Installed	Not Applicable	5
	Equipment	Not Applicable	
	Records of Failures, Faults and Incidents	Not Applicable	
7	OUT STANDING DOCUMENTATION & RECORDS		
-52			8
	Documents or records that have not been submitted or accepted but do not prevent the sign-off of the package. Add to Punchworks.		
	sign-off of the package. Add to Punchworks.		
_			





	Crossral	SUB*/CONST	OSSRAIL CENTRAL SECTION IRUCTION CERTIFICATE Part 2 of 2 or ALLATION RELEASE NOTE Part 2 of 2 PACKAGE LISTING	
	Contract Deliverable No. C13.006	SUB CONSTRUCTION NO Part 2 of 2	: C300-BFK-O-CER-CRT00_ST005-50114 Rev 1.0	
	on of element of construction: Utility Works Indirect			
	wered by this package (including temporary work ermanent water Main works	s left in place)		
THE	FOLLOWING DOCUMENTS/RECORDS ARE SPEC	CIFIC TO THESE WORKS	DO NOT DELETE "NOT APPLICABLE" ITEMS Document Number Revisio	
	booancie mic		Document Namber	
	ſ	CONTRACTOR STAT	TEMENT	
Certificate Pa	ckage Prepared by:		Checked by:	
Name:			Name:	
Contractor Qu	ality Manager:	Ó		
Name:		65	Date:	
		Supervisor's State	ement	
			nent above, and have identified <b>Outstanding Works / Defect</b> a <b>bove</b> [strikeout and note NOT APPLICABLE if necc]	sin
8	irst Reviewer:			
	irst Reviewer:		Date:	





For Part 2 Package Listing see Appendix 8

# 18.9 Appendix 9 – Typical Construction Certificate Template

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	1		140		14	-			100
		4			12		1.		100
	4.5					-			
( coccrail		22		1					100
Crossrail									12
			1	-	12				
						10			
								0	

# **CROSSRAIL CENTRAL SECTION** CONSTRUCTION CERTIFICATE This is Part 1 of 2

[strikeout if N/A]

	CONTRACT	OF		T		
Contract Number: CXXX		C	ontract Deliverable	e No: CXX	.xxx	
Contract Name:			onstruction Certificat XXX-SKC-A-CER-CRO	States and states and	lev X.X	
Contractor Name:			ackage Listing & R ocument. [Strikeout ar		tement: see Part 2 of 2 of this Aif not applicable]	
Design Cert CXXX-SKC-S-CER-CR001-XXXXX	Rev X.X					
Name and location of element o	f construction:					
Precise limits covered by this ce	rtificate:					
comply with the relevant Wo workmanship used, including te design as reflected in the mark Package Listing, and that the e the Consolidated Outstanding V mark N/A if Not Applicable.] Records, in addition to those i	sting, are in compli ed up drawings ref lement of works are Vorks List as identif ncluded in the Pac	ance eren con ïed i kaqe	with the requirem aced on the attach nplete subject to t n Section 4A of P e Contents Listing	nents of th ned Part 2 he comple art 2 of th for this (	e Contract and the certified of 2 of this document, the tion of the Works stated on is document. [Strikeout and Construction Certificate, are	
included within the following Su records for the element of const				h, togethe	r, comprise the construction	
e.gC330-SKC-A-CER-CR001-50010 Rev 1						
0/						
Signed			For and on behalf of:	12		
Name	Position			Date		
	Supervis	sor	's Statement			
I have checked <b>Parts 1 and 2</b> ( Defects in accordance with the [Strikeout and mark N/A if Not A	Outstanding Works					
Signed		10				
Name			Date.			
0.0						
	Project Ma	nag	er's Statemen	t		
I Confirm acceptance of this Co	- 10 KON 100 KON 100	-	to densities in state	sta stant	rks List as noted above.	
[Strikeout and mark N/A if Not A	.pplicable]					
Signed						
Name			Date.			

Valid only if viewed through the CRL Management System Portal on Crossrail Connect Crossrall Limited CRL RESTRICTED Tem plate: CRL1-XRL-04-ZTM-CR001-50020 Rev1 0

Related Procedure : CRL1-XRL-04-GPD-CR001-50000

(Supersedes CRL1-XRL-Z-ZTM-CR001-S0004, Rev1.0)





# 18.10 Appendix 10 – Typical Whole Contract Construction Certificate Template

≫	1.4.4.4.4.4.4	 	 	 
Crossrai		 	 	 
		 	 	 -

# CROSSRAIL CENTRAL SECTION WHOLE CONTRACT CONSTRUCTION CERTIFICATE

Part 1 of 2

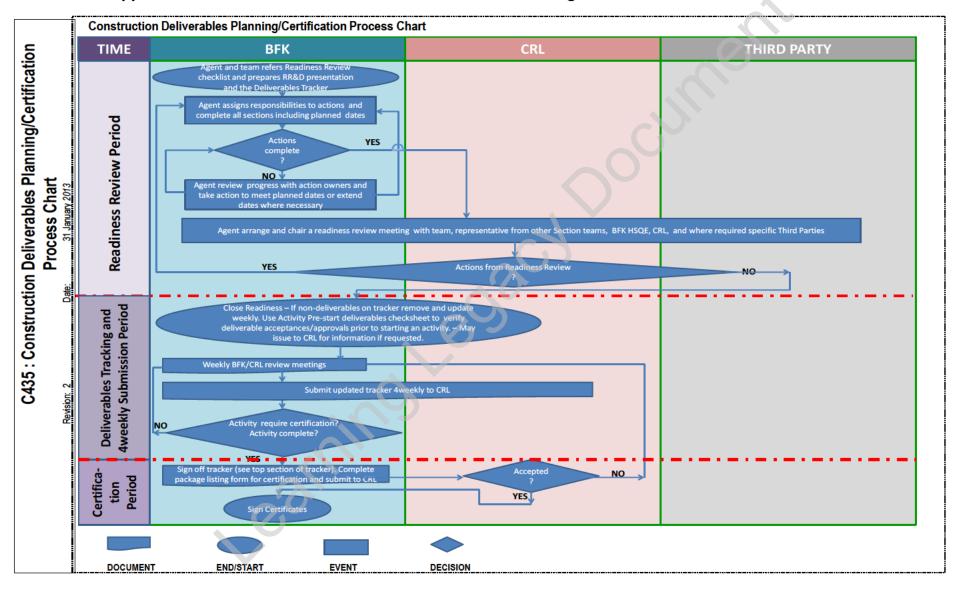
	CONTRACT	TOR STATEMEN	Т		1	
Contract Number: CXXX	0	Contract Deli∨erable No	D. CXX.XXX		1	
Contract Name:		Whole Contract Construction Cert <b>CXXX</b> -	ole Contract nstruction Cert CXXX-SKC-A-CER-CR001-XXXXX Rev X.X			
Contractor Name:	tor Name: Package Listing & Review Statement: see Part 2 of 2 of this document					
Design Cert: Cxxx-SKC-S-CER-C	No.				Ø	
Location of Contract:					1	
Precise limits covered by this c	certificate:				1	
In accordance with this Whole works as stated in the Works II Outstanding Works List [eB We certify that the Records inc together with those in the follow the Contract referred to above	nformation subject to t <b>Document Number .</b> cluded in the above ret wing Construction Cer	the completion of the C <b>] and attac</b> eferenced Part 2 of this	efects in the <b>C</b> thed to this d document, the	consolidated ocument Package Listing,		
C330-SKC-A-CER-CR001-50013 Rev 0.1			NT.			
					]	
		20				
Signed:		For and on behalf of:				
Name:	Position:		Date:			
	Supervis	sor's Statement			Ī	
have checked this Whole Cor				ving Defects in	5	
Consolidated Outstanding W	/orks List eB referen	nce number:	and attached	to this document)		
Signed		Date				
Name	Due is a f M	A				
I confirm acceptance of this W		Manager's States uction Certificate subje		olidated Outstanding	-	
Works List as noted above						
Signed						
Name		Date			-	
anan sawa wa waka wa w	en en en en en en en	e sectors or so	197 32 33 33 199 1993 <del>9</del>	ar na - M	1	
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Crossrall Limited			URL	RESTRICTED		

Template: CRL1-XRL-O4-ZTM-CR001-50030 Rev 1.0 Related Procedure: CRL1-XRL-O4-GPD-CR001-50006 (Supersedes CRL1-XRL-Z-ZTM-CR001-50005, Rev 1.0)





### 18.11 Appendix 11 – Summarised Process of Deliverables Planning and Certification







# 18.12 Appendix 12 – MEP Readiness to Review, Certification Procedure and Readiness to Review templates

Refer to the eB document

C435-BFK-O4-GPS-M123-50005

For MEP Readiness to Review, Certification Procedure & relevant certificate templates

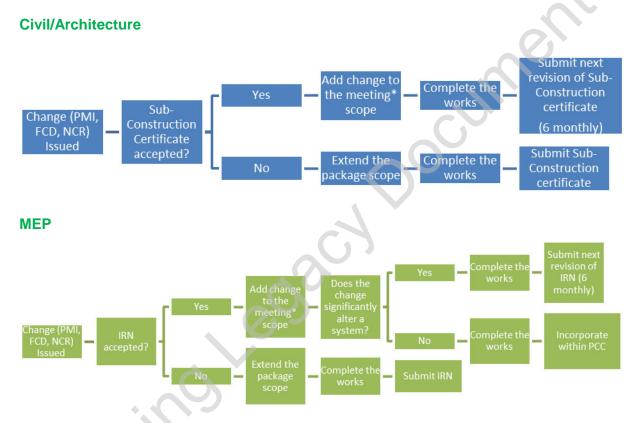


# 18.13 Appendix – 13 Process for Managing Changes as Part of Certification of the Works

### 1. Introduction:

As a result of the ongoing and anticipated future change it is necessary to capture all additional works that change to the Works Information (PMI, NCR, FCD) in our Sub-Construction certificates. This ensures that we look ahead to proactively ensure that *ALL* completed works have been certified and are adequately documented.

### 2. Process flow-chart:



### 3. \* PMI, NCR, FCD meeting once a month (after QFM).

### Attendees:

Sub-Agents/Agents, NGB Package Managers, NGB Certification Manager, Quality Manager, Handover Manager, CRL Field Engineers

### Input:

- 1. Quality Manager one week before the meeting sends out list of PMIs, NCRs and FCDs for the previous period (eB report).
- 2. Sub-Agent/Agent, NGB Package Manager adds the location, package listing document reference (from C435 Certification Schedule) and colour codes the list:
  - •GREEN open, live package
  - •YELLOW not relevant to any of the packages
  - RED closed package

### Output:

Create list of RED changes (PMIs, NCRs, FCDs) for this and past periods, and track until they are included in the relevant Sub-Construction Certificates.





Every six months the next revision of the relevant certificate e.g. (Sub-construction certificate, IRN, PCC, etc.) is submitted with all the agreed changes (PMIs, NCRs, FCDs) documented therein, to keep all information in a single source.

Note that as well as the above changes to the relevant certificate, the following will also typically need to be updated/included as part of this submission:

ocur

- 1. New/updated red line drawings
- 2. Additional check sheets/ITP Records
- 3. Additional Punchworks items



# 18.14 Appendix-14 Record Package Compliance Statement

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Associated ITP		
ITP Title:		
ITP No.:		77
Brief description of the ITP and location of the works		
Review		
Date of due diligence review:		
Are there any outstanding items which affect the completeness of the package?	Yes	No

Outstanding Works List No. Not Applicable?

Details of documents excluded from this package: None?

Statement of Co	ompliance	
reviewed and demo	onstrates that the support in	2B Parts 13 & 20 this package has been g documents and details have been e associated ITP and Contract requirements;
Subcontractor	(if ap	oplicable); reviewed and checked by
Name:	0,,	Signature:
Job Title:		

+

Date Prepared:

Name:	Signature:			
Tick applicable position:	Quality Manager	Construction Manager		
Date Prepared:		5.		

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Record Package Compliance Statement: CRL1-XRL-O4-ZTM-CR001-50026, Rev 1.0